THE CHARACTER TABLES OF CENTRALIZERS IN WEYL GROUP OF E_8 V

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Abstract. To classify the finite dimensional pointed Hopf algebras with Weyl group G of E_8, we obtain the representatives of conjugacy classes of G and all character tables of centralizers of these representatives by means of software GAP. In this paper we only list character table 95–112.

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0. Introduction

This article is to contribute to the classification of finite-dimensional complex pointed Hopf algebras with Weyl groups of E_6, E_7, F_4, G_2. Many papers are about the classification of finite dimensional pointed Hopf algebras, for example, [AS98, AS02, AS00, AS05, He06, AHS08, AG03, AFZ, AZ07, Gr00, Fa07, AF06, AF07, ZZC, ZC].

In these research ones need the centralizers and character tables of groups. In this paper we obtain the representatives of conjugacy classes of Weyl groups of E_8 and all character tables of centralizers of these representatives by means of software GAP. In this paper we only list character table 95–112.

By the Cartan-Killing classification of simple Lie algebras over complex field the Weyl groups to be considered are $W(A_l), (l \geq 1)$; $W(B_l), (l \geq 2)$; $W(C_l), (l \geq 2)$; $W(D_l), (l \geq 4)$; $W(E_l), (8 \geq l \geq 6)$; $W(F_l), (l = 4)$; $W(G_l), (l = 2)$.

It is otherwise desirable to do this in view of the importance of Weyl groups in the theories of Lie groups, Lie algebras and algebraic groups. For example, the irreducible representations of Weyl groups were obtained by Frobenius, Schur and Young. The conjugace classes of $W(F_4)$ were obtained by Wall [Wa63] and its character tables were obtained by Kondo [Ko65]. The conjugace classes and character tables of $W(E_6)$, $W(E_7)$ and $W(E_8)$ were obtained by Frame [Fr51]. Carter gave a unified description of the conjugace classes of Weyl groups of simple Lie algebras [Ca72].

1. Program

By using the following program in GAP, we obtain the representatives of conjugacy classes of Weyl groups of E_6 and all character tables of centralizers of these representatives.

```
gap> L:=SimpleLieAlgebra("E",6,Rationals);;
gap> R:=RootSystem(L);;
gap> W:=WeylGroup(R);Display(Order(W));
gap > ccl:=ConjugacyClasses(W);;
gap> q:=NrConjugacyClasses(W);; Display (q);
gap> for i in [1..q] do
> r:=Order(Representative(ccl[i]));Display(r);;
> od; gap
> s1:=Representative(ccl[1]);;cen1:=Centralizer(W,s1);;
gap> cl1:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[2]);;cen1:=Centralizer(W,s1);;
gap> cl2:=ConjugacyClasses(cen1);
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gap> s1:=Representative(ccl[3]);;cen1:=Centralizer(W,s1);;
gap> cl3:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[4]);;cen1:=Centralizer(W,s1);;
gap> cl4:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[5]);;cen1:=Centralizer(W,s1);;
gap> cl5:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[6]);;cen1:=Centralizer(W,s1);;
gap> cl6:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[7]);;cen1:=Centralizer(W,s1);;
gap> cl7:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[8]);;cen1:=Centralizer(W,s1);;
gap> cl8:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[9]);;cen1:=Centralizer(W,s1);;
gap> cl9:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[10]);;cen1:=Centralizer(W,s1);;
gap> cl10:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[11]);;cen1:=Centralizer(W,s1);;
gap> cl11:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[12]);;cen1:=Centralizer(W,s1);;
gap> cl2:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[13]);;cen1:=Centralizer(W,s1);;
gap> cl13:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[14]);;cen1:=Centralizer(W,s1);;
gap> cl14:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[15]);;cen1:=Centralizer(W,s1);;
gap> cl15:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[16]);;cen1:=Centralizer(W,s1);;
gap> cl16:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[17]);;cen1:=Centralizer(W,s1);;
gap> cl17:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[18]);;cen1:=Centralizer(W,s1);;
gap> cl18:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[19]);;cen1:=Centralizer(W,s1);;
gap> cl19:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[20]);;cen1:=Centralizer(W,s1);;
gap> cl20:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[21]);;cen1:=Centralizer(W,s1);;
gap> cl21:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[22]);;cen1:=Centralizer(W,s1);;
gap> cl22:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[23]);;cen1:=Centralizer(W,s1);;
gap> cl23:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[24]);;cen1:=Centralizer(W,s1);;
> cl24:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[25]);;cen1:=Centralizer(W,s1);
gap> cl25:=ConjugacyClasses(cen1);
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gap> for i in [1..q] do
> s:=Representative(ccl[i]);;cen:=Centralizer(W,s);;
> char:=CharacterTable(cen);;Display (cen);Display(char);
> od;
The programs for Weyl groups of E_7, E_8, F_4 and G_2 are similar.

2. E_8

The generators of $G^{s_{95}}$ are:

$$\begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 2 & 0 & -3 & 2 & 0 & 1 & 0 \\ -1 & 2 & 1 & -4 & 3 & 0 & 1 & 0 \\ -1 & 4 & 1 & -6 & 4 & 0 & 1 & 1 \\ -1 & 3 & 1 & -5 & 4 & -1 & 1 & 1 \\ -1 & 2 & 1 & -4 & 3 & 0 & 0 & 1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 0 & 1 \\ 0 & 1 & 1 & -2 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 1 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 3 & -2 & -3 & 1 & 5 & -3 & 1 \\ 0 & 2 & -2 & -2 & 1 & 4 & -3 & 1 \\ 0 & 1 & -1 & -2 & 1 & 3 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{95}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ -1 & -3 & 2 & 2 & 0 & -3 & 1 & 0 \\ -2 & -4 & 3 & 3 & 0 & -4 & 0 & 1 \\ -2 & -3 & 3 & 2 & 0 & -3 & 0 & 1 \\ -1 & -2 & 2 & 2 & -1 & -2 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ -1 & -3 & 2 & 2 & 0 & -3 & 1 & 0 \\ -2 & -4 & 3 & 3 & 0 & -4 & 1 & -1 \\ -2 & -3 & 3 & 2 & 0 & -3 & 1 & -1 \\ -1 & -2 & 2 & 2 & -1 & -2 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -4 & 1 & 4 & -1 & -5 & 3 & 0 \\ 0 & -3 & 1 & 3 & -1 & -4 & 3 & 0 \\ 0 & -2 & 0 & 3 & -1 & -3 & 2 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -3 & 2 & 3 & -1 & -5 & 2 & 1 \\ 0 & -2 & 2 & 2 & -1 & -4 & 2 & 1 \\ 0 & -1 & 1 & 2 & -1 & -3 & 1 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -3 & 2 & 3 & -1 & -5 & 3 & -1 \\ 0 & -2 & 2 & 2 & -1 & -4 & 3 & -1 \\ 0 & -1 & 1 & 2 & -1 & -3 & 2 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 & -3 & 1 & 0 \\ -1 & -2 & 1 & 2 & 1 & -4 & 1 & 0 \\ -1 & -3 & 0 & 4 & 1 & -6 & 2 & 0 \\ -1 & -2 & 0 & 3 & 1 & -5 & 2 & 0 \\ -1 & -2 & 0 & 3 & 0 & -3 & 1 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 & -3 & 1 & 0 \\ -1 & -2 & 1 & 2 & 1 & -4 & 1 & 0 \\ -1 & -2 & 1 & 3 & 1 & -6 & 1 & 1 \\ -1 & -1 & 1 & 2 & 1 & -5 & 1 & 1 \\ -1 & -1 & 1 & 2 & 0 & -3 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 & -3 & 1 & 0 \\ -1 & -2 & 1 & 2 & 1 & -4 & 1 & 0 \\ -1 & -2 & 1 & 3 & 1 & -6 & 2 & -1 \\ -1 & -1 & 1 & 2 & 1 & -5 & 2 & -1 \\ -1 & -1 & 1 & 2 & 0 & -3 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -2 & 0 & 0 & 1 & 1 & -2 & 1 \\ -2 & -2 & 0 & 1 & 0 & 1 & -2 & 1 \\ -1 & -2 & 0 & 1 & 0 & 0 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -2 & 0 & 0 & 1 & 1 & -1 & -1 \\ -2 & -2 & 0 & 1 & 0 & 1 & -1 & -1 \\ -1 & -2 & 0 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -1 & 1 & -1 & 1 & 1 & -2 & 0 \\ -2 & -1 & 1 & 0 & 0 & 1 & -2 & 0 \\ -1 & -1 & 1 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -1 & 0 & -2 & 0 & 2 & -1 & -1 & 1 \\ -1 & 0 & -2 & 1 & 1 & -1 & -1 & 1 \\ -1 & -1 & -1 & 1 & 1 & -1 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -1 & 0 & -2 & 0 & 2 & -1 & 0 & -1 \\ -1 & 0 & -2 & 1 & 1 & -1 & 0 & -1 \\ -1 & -1 & -1 & 1 & 1 & -1 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & -1 & 0 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 1 & 0 & 3 & -5 & 4 & -2 & 1 \\ -2 & 1 & 0 & 2 & -4 & 4 & -2 & 1 \\ -1 & 1 & 0 & 1 & -3 & 3 & -1 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 1 & 0 & 3 & -5 & 4 & -1 & -1 \\ -2 & 1 & 0 & 2 & -4 & 4 & -1 & -1 \\ -1 & 1 & 0 & 1 & -3 & 3 & 0 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 2 & 1 & 2 & -5 & 4 & -2 & 0 \\ -2 & 2 & 1 & 1 & -4 & 4 & -2 & 0 \\ -1 & 2 & 1 & 0 & -3 & 3 & -1 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 2 & -1 & 3 & -6 & 3 & 0 & 1 \\ 0 & 2 & -1 & 2 & -5 & 3 & 0 & 1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 0 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 2 & -1 & 3 & -6 & 3 & 1 & -1 \\ 0 & 2 & -1 & 2 & -5 & 3 & 1 & -1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 1 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & 0 & 2 & -6 & 3 & 0 & 0 \\ 0 & 3 & 0 & 1 & -5 & 3 & 0 & 0 \\ 0 & 3 & 0 & 0 & -3 & 2 & 0 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ -1 & 2 & -1 & 2 & -3 & 2 & -1 & 0 \\ -1 & 3 & -2 & 3 & -4 & 2 & -1 & 1 \\ -1 & 3 & -2 & 2 & -3 & 2 & -1 & 1 \\ -1 & 2 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ -1 & 2 & -1 & 2 & -3 & 2 & -1 & 0 \\ -1 & 3 & -2 & 3 & -4 & 2 & 0 & -1 \\ -1 & 3 & -2 & 2 & -3 & 2 & 0 & -1 \\ -1 & 2 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ -1 & 2 & -1 & 2 & -3 & 2 & -1 & 0 \\ -1 & 4 & -1 & 2 & -4 & 2 & -1 & 0 \\ -1 & 4 & -1 & 1 & -3 & 2 & -1 & 0 \\ -1 & 3 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ -1 & 1 & 1 & -3 & 2 & 1 & 0 & 0 \\ -1 & 1 & 2 & -4 & 2 & 1 & 1 & 0 \\ -2 & 1 & 2 & -5 & 3 & 2 & 1 & 0 \\ -2 & 0 & 2 & -4 & 3 & 1 & 1 & 0 \\ -1 & 0 & 1 & -3 & 2 & 1 & 1 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ -1 & 1 & 1 & -3 & 2 & 1 & 0 & 0 \\ -1 & 1 & 2 & -4 & 2 & 1 & 1 & 0 \\ -2 & 2 & 3 & -6 & 3 & 2 & 0 & 1 \\ -2 & 1 & 3 & -5 & 3 & 1 & 0 & 1 \\ -1 & 1 & 2 & -4 & 2 & 1 & 0 & 1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 0 & 1 \\ 0 & 1 & 1 & -2 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ -1 & 1 & 1 & -3 & 2 & 1 & 0 & 0 \\ -1 & 1 & 2 & -4 & 2 & 1 & 1 & 0 \\ -2 & 2 & 3 & -6 & 3 & 2 & 1 & -1 \\ -2 & 1 & 3 & -5 & 3 & 1 & 1 & -1 \\ -1 & 1 & 2 & -4 & 2 & 1 & 1 & -1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 2 & 1 & -5 & 2 & 1 & 3 & 0 \\ 0 & 1 & 1 & -4 & 2 & 0 & 3 & 0 \\ 0 & 1 & 0 & -3 & 2 & 0 & 2 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 3 & 2 & -6 & 2 & 1 & 2 & 1 \\ 0 & 2 & 2 & -5 & 2 & 0 & 2 & 1 \\ 0 & 2 & 1 & -4 & 2 & 0 & 1 & 1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 0 & 1 \\ 0 & 1 & 1 & -2 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 3 & 2 & -6 & 2 & 1 & 3 & -1 \\ 0 & 2 & 2 & -5 & 2 & 0 & 3 & -1 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & -1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 2 & 0 & -3 & 2 & 0 & 1 & 0 \\ -1 & 2 & 1 & -4 & 3 & 0 & 1 & 0 \\ -1 & 3 & 0 & -5 & 4 & 0 & 2 & 0 \\ -1 & 2 & 0 & -4 & 4 & -1 & 2 & 0 \\ -1 & 1 & 0 & -3 & 3 & 0 & 1 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 2 & 0 & -3 & 2 & 0 & 1 & 0 \\ -1 & 2 & 1 & -4 & 3 & 0 & 1 & 0 \\ -1 & 4 & 1 & -6 & 4 & 0 & 1 & 1 \\ -1 & 3 & 1 & -5 & 4 & -1 & 1 & 1 \\ -1 & 2 & 1 & -4 & 3 & 0 & 0 & 1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 0 & 1 \\ 0 & 1 & 1 & -2 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 2 & 0 & -3 & 2 & 0 & 1 & 0 \\ -1 & 2 & 1 & -4 & 3 & 0 & 1 & 0 \\ -1 & 4 & 1 & -6 & 4 & 0 & 2 & -1 \\ -1 & 3 & 1 & -5 & 4 & -1 & 2 & -1 \\ -1 & 2 & 1 & -4 & 3 & 0 & 1 & -1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 1 & -2 & -1 & 4 & -3 & 0 & -1 & 0 \\ 1 & -4 & -1 & 6 & -4 & 0 & -2 & 1 \\ 1 & -3 & -1 & 5 & -4 & 1 & -2 & 1 \\ 1 & -2 & -1 & 4 & -3 & 0 & -1 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 1 & -2 & -1 & 4 & -3 & 0 & -1 & 0 \\ 1 & -4 & -1 & 6 & -4 & 0 & -1 & -1 \\ 1 & -3 & -1 & 5 & -4 & 1 & -1 & -1 \\ 1 & -2 & -1 & 4 & -3 & 0 & 0 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 1 & -2 & -1 & 4 & -3 & 0 & -1 & 0 \\ 1 & -3 & 0 & 5 & -4 & 0 & -2 & 0 \\ 1 & -2 & 0 & 4 & -4 & 1 & -2 & 0 \\ 1 & -1 & 0 & 3 & -3 & 0 & -1 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 3 & -1 & -1 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -3 & -2 & 6 & -2 & -1 & -3 & 1 \\ 0 & -2 & -2 & 5 & -2 & 0 & -3 & 1 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 3 & -1 & -1 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -3 & -2 & 6 & -2 & -1 & -2 & -1 \\ 0 & -2 & -2 & 5 & -2 & 0 & -2 & -1 \\ 0 & -2 & -1 & 4 & -2 & 0 & -1 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 3 & -1 & -1 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -2 & -1 & 5 & -2 & -1 & -3 & 0 \\ 0 & -1 & -1 & 4 & -2 & 0 & -3 & 0 \\ 0 & -1 & 0 & 3 & -2 & 0 & -2 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 1 & -1 & -1 & 3 & -2 & -1 & 0 & 0 \\ 1 & -1 & -2 & 4 & -2 & -1 & -1 & 0 \\ 2 & -2 & -3 & 6 & -3 & -2 & -1 & 1 \\ 2 & -1 & -3 & 5 & -3 & -1 & -1 & 1 \\ 1 & -1 & -2 & 4 & -2 & -1 & -1 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 1 & -1 & -1 & 3 & -2 & -1 & 0 & 0 \\ 1 & -1 & -2 & 4 & -2 & -1 & -1 & 0 \\ 2 & -2 & -3 & 6 & -3 & -2 & 0 & -1 \\ 2 & -1 & -3 & 5 & -3 & -1 & 0 & -1 \\ 1 & -1 & -2 & 4 & -2 & -1 & 0 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 1 & -1 & -1 & 3 & -2 & -1 & 0 & 0 \\ 1 & -1 & -2 & 4 & -2 & -1 & -1 & 0 \\ 2 & -1 & -2 & 5 & -3 & -2 & -1 & 0 \\ 2 & 0 & -2 & 4 & -3 & -1 & -1 & 0 \\ 1 & 0 & -1 & 3 & -2 & -1 & -1 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -2 & 1 & -1 & 2 & -1 & 0 & 0 \\ 1 & -2 & 1 & -2 & 3 & -2 & 1 & 0 \\ 1 & -4 & 1 & -2 & 4 & -2 & 1 & 0 \\ 1 & -4 & 1 & -1 & 3 & -2 & 1 & 0 \\ 1 & -3 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -2 & 1 & -1 & 2 & -1 & 0 & 0 \\ 1 & -2 & 1 & -2 & 3 & -2 & 1 & 0 \\ 1 & -3 & 2 & -3 & 4 & -2 & 0 & 1 \\ 1 & -3 & 2 & -2 & 3 & -2 & 0 & 1 \\ 1 & -2 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -2 & 1 & -1 & 2 & -1 & 0 & 0 \\ 1 & -2 & 1 & -2 & 3 & -2 & 1 & 0 \\ 1 & -3 & 2 & -3 & 4 & -2 & 1 & -1 \\ 1 & -3 & 2 & -2 & 3 & -2 & 1 & -1 \\ 1 & -2 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -3 & 0 & -2 & 6 & -3 & 0 & 0 \\ 0 & -3 & 0 & -1 & 5 & -3 & 0 & 0 \\ 0 & -3 & 0 & 0 & 3 & -2 & 0 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -2 & 1 & -3 & 6 & -3 & -1 & 1 \\ 0 & -2 & 1 & -2 & 5 & -3 & -1 & 1 \\ 0 & -2 & 1 & -1 & 3 & -2 & -1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -2 & 1 & -3 & 6 & -3 & 0 & -1 \\ 0 & -2 & 1 & -2 & 5 & -3 & 0 & -1 \\ 0 & -2 & 1 & -1 & 3 & -2 & 0 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 1 & -1 & 0 & -1 & 2 & -2 & 1 & 0 \\ 1 & -1 & 0 & -2 & 4 & -3 & 1 & 0 \\ 2 & -2 & -1 & -2 & 5 & -4 & 2 & 0 \\ 2 & -2 & -1 & -1 & 4 & -4 & 2 & 0 \\ 1 & -2 & -1 & 0 & 3 & -3 & 1 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 1 & -1 & 0 & -1 & 2 & -2 & 1 & 0 \\ 1 & -1 & 0 & -2 & 4 & -3 & 1 & 0 \\ 2 & -1 & 0 & -3 & 5 & -4 & 1 & 1 \\ 2 & -1 & 0 & -2 & 4 & -4 & 1 & 1 \\ 1 & -1 & 0 & -1 & 3 & -3 & 0 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 1 & -1 & 0 & -1 & 2 & -2 & 1 & 0 \\ 1 & -1 & 0 & -2 & 4 & -3 & 1 & 0 \\ 2 & -1 & 0 & -3 & 5 & -4 & 2 & -1 \\ 2 & -1 & 0 & -2 & 4 & -4 & 2 & -1 \\ 1 & -1 & 0 & -1 & 3 & -3 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & -1 & 1 & 1 & 0 \\ 1 & 0 & 0 & 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & 0 & 2 & 0 & -2 & 1 & 0 & 1 \\ 1 & 0 & 2 & -1 & -1 & 1 & 0 & 1 \\ 1 & 1 & 1 & -1 & -1 & 1 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & 0 & 2 & 0 & -2 & 1 & 1 & -1 \\ 1 & 0 & 2 & -1 & -1 & 1 & 1 & -1 \\ 1 & 1 & 1 & -1 & -1 & 1 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ -1 & -3 & 2 & 2 & 0 & -3 & 1 & 0 \\ -2 & -5 & 2 & 4 & 0 & -4 & 1 & 0 \\ -2 & -4 & 2 & 3 & 0 & -3 & 1 & 0 \\ -1 & -3 & 1 & 3 & -1 & -2 & 1 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 1 & -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 1 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 2 & 1 & -1 & 1 & -1 & -1 & 2 & 0 \\ 2 & 1 & -1 & 0 & 0 & -1 & 2 & 0 \\ 1 & 1 & -1 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 2 & 2 & 0 & 0 & -1 & -1 & 1 & 1 \\ 2 & 2 & 0 & -1 & 0 & -1 & 1 & 1 \\ 1 & 2 & 0 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 2 & 2 & 0 & 0 & -1 & -1 & 2 & -1 \\ 2 & 2 & 0 & -1 & 0 & -1 & 2 & -1 \\ 1 & 2 & 0 & -1 & 0 & 0 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 & 3 & -1 & 0 \\ 1 & 2 & -1 & -2 & -1 & 4 & -1 & 0 \\ 1 & 2 & -1 & -3 & -1 & 6 & -2 & 1 \\ 1 & 1 & -1 & -2 & -1 & 5 & -2 & 1 \\ 1 & 1 & -1 & -2 & 0 & 3 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 & 3 & -1 & 0 \\ 1 & 2 & -1 & -2 & -1 & 4 & -1 & 0 \\ 1 & 2 & -1 & -3 & -1 & 6 & -1 & -1 \\ 1 & 1 & -1 & -2 & -1 & 5 & -1 & -1 \\ 1 & 1 & -1 & -2 & 0 & 3 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 & 3 & -1 & 0 \\ 1 & 2 & -1 & -2 & -1 & 4 & -1 & 0 \\ 1 & 3 & 0 & -4 & -1 & 6 & -2 & 0 \\ 1 & 2 & 0 & -3 & -1 & 5 & -2 & 0 \\ 1 & 2 & 0 & -3 & 0 & 3 & -1 & 0 \\ 0 & 2 & 0 & -2 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 1 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 3 & -2 & -3 & 1 & 5 & -3 & 1 \\ 0 & 2 & -2 & -2 & 1 & 4 & -3 & 1 \\ 0 & 1 & -1 & -2 & 1 & 3 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 1 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 3 & -2 & -3 & 1 & 5 & -2 & -1 \\ 0 & 2 & -2 & -2 & 1 & 4 & -2 & -1 \\ 0 & 1 & -1 & -2 & 1 & 3 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 1 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 4 & -1 & -4 & 1 & 5 & -3 & 0 \\ 0 & 3 & -1 & -3 & 1 & 4 & -3 & 0 \\ 0 & 2 & 0 & -3 & 1 & 3 & -2 & 0 \\ 0 & 2 & 0 & -2 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 1 & 2 & -1 & -2 & 0 & 2 & 0 & 0 \\ 1 & 3 & -2 & -2 & 0 & 3 & -1 & 0 \\ 2 & 4 & -3 & -3 & 0 & 4 & -1 & 1 \\ 2 & 3 & -3 & -2 & 0 & 3 & -1 & 1 \\ 1 & 2 & -2 & -2 & 1 & 2 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 1 & 2 & -1 & -2 & 0 & 2 & 0 & 0 \\ 1 & 3 & -2 & -2 & 0 & 3 & -1 & 0 \\ 2 & 4 & -3 & -3 & 0 & 4 & 0 & -1 \\ 2 & 3 & -3 & -2 & 0 & 3 & 0 & -1 \\ 1 & 2 & -2 & -2 & 1 & 2 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 1 & 2 & -1 & -2 & 0 & 2 & 0 & 0 \\ 1 & 3 & -2 & -2 & 0 & 3 & -1 & 0 \\ 2 & 5 & -2 & -4 & 0 & 4 & -1 & 0 \\ 2 & 4 & -2 & -3 & 0 & 3 & -1 & 0 \\ 1 & 3 & -1 & -3 & 1 & 2 & -1 & 0 \\ 0 & 2 & 0 & -2 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}.$$

The character table of $G^{s_{95}}$:

										10										20				
$\chi_{95}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{95}^{(2)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{95}^{(3)}$	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{95}^{(4)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{95}^{(5)}$	1	A	A	-1	-1	-1	/A	/A	/A	-A	-A	-A	1	1	1	-/A	-/A	-/A	-A	-A	-A	1	1	
$\chi_{95}^{(6)}$	1	/A	/A	-1	-1	-1	A	A	A	-/A	-/A	-/A	1	1	1	-A	-A	-A	-/A	-/A	-/A	1	1	
$\chi_{95}^{(7)}$	1	-/A	-/A	1	1	1	-A	-A	-A	/A	/A	/A	-1	-1	-1	A	A	A	/A	/A	/A	-1	-1	
$\chi_{95}^{(8)}$	1	-A	-A	1	1	1	-/A	-/A	-/A	A	A	A	-1	-1	-1	/A	/A	/A	A	A	A	-1	-1	
$\chi_{95}^{(9)}$	1	/A	/A	-1	-1	-1	A	A	A	/A	/A	/A	-1	-1	-1	A	A	A	/A	/A	/A	-1	-1	
$\chi_{95}^{(10)}$	1	A	A	-1	-1	-1	/A	/A	/A	A	A	A	-1	-1	-1	/A	/A	/A	A	A	A	-1	-1	
$\chi_{95}^{(11)}$	1	-A	-A	1	1	1	-/A	-/A	-/A	-A	-A	-A	1	1	1	-/A	-/A	-/A	-A	-A	-A	1	1	
$\chi_{95}^{(12)}$	1	-/A	-/A	1	1	1	-A	-A	-A	-/A	-/A	-/A	1	1	1	-A	-A	-A	-/A	-/A	-/A	1	1	
$\chi_{95}^{(13)}$	1	/A	A	-1	/A	A	-1	/A	A	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	
$\chi_{95}^{(14)}$	1	A	/A	-1	A	/A	-1	A	/A	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	
$\chi_{95}^{(15)}$	1	-1	/A	-1	/A	A	/A	A	-1	-/A	1	-A	-A	-/A	1	1	-A	-/A	-/A	1	-A	-A	-/A	
$\chi_{95}^{(16)}$	1	-1	A	-1	A	/A	A	/A	-1	-A	1	-/A	-/A	-A	1	1	-/A	-A	-A	1	-/A	-/A	-A	
$\chi_{95}^{(17)}$	1	A	-1	-1	/A	A	A	-1	/A	1	-A	-/A	-A	-/A	1	-/A	1	-A	1	-A	-/A	-A	-/A	
$\chi_{95}^{(18)}$	1	/A	-1	-1	A	/A	/A	-1	A	1	-/A	-A	-/A	-A	1	-A	1	-/A	1	-/A	-A	-/A	-A	
$\chi_{95}^{(19)}$	1	-/A	-A	1	-/A	-A	1	-/A	-A	A	/A	-1	A	/A	-1	A	/A	-1	A	/A	-1	A	/A	
$\chi_{95}^{(20)}$	1	-A	-/A	1	-A	-/A	1	-A	-/A	/A	A	-1	/A	A	-1	/A	A	-1	/A	A	-1	/A	A	
$\chi_{95}^{(21)}$	1	-A	1	1	-/A	-A	-A	1	-/A	-1	A	/A	A	/A	-1	/A	-1	A	-1	A	/A	A	/A	
$\chi_{95}^{(22)}$	1	-/A	1	1	-A	-/A	-/A	1	-A	-1	/A	A	/A	A	-1	A	-1	/A	-1	/A	A	/A	A	
$\chi_{95}^{(23)}$	1	1	-/A	1	-/A	-A	-/A	-A	1	/A	-1	A	A	/A	-1	-1	A	/A	/A	-1	A	A	/A	
$\chi_{95}^{(24)}$	1	1	-A	1	-A	-/A	-A	-/A	1	A	-1	/A	/A	A	-1	-1	/A	A	A	-1	/A	/A	A	
$\chi_{95}^{(25)}$	1	A	/A	-1	A	/A	-1	A	/A	/A	A	-1	/A	A	-1	/A	A	-1	/A	A	-1	/A	A	
$\chi_{95}^{(26)}$	1	/A	A	-1	/A	A	-1	/A	A	A	/A	-1	A	/A	-1	A	/A	-1	A	/A	-1	A	/A	
$\chi_{95}^{(27)}$	1	-1	A	-1	A	/A	A	/A	-1	A	-1	/A	/A	A	-1	-1	/A	A	A	-1	/A	/A	A	
$\chi_{95}^{(28)}$	1	-1	/A	-1	/A	A	/A	A	-1	/A	-1	A	A	/A	-1	-1	A	/A	/A	-1	A	A	/A	
$\chi_{95}^{(29)}$	1	/A	-1	-1	A	/A	/A	-1	A	-1	/A	A	/A	A	-1	A	-1	/A	-1	/A	A	/A	A	
$\chi_{95}^{(30)}$	1	A	-1	-1	/A	A	A	-1	/A	-1	A	/A	A	/A	-1	/A	-1	A	-1	A	/A	A	/A	
$\chi_{95}^{(31)}$	1	-A	-/A	1	-A	-/A	1	-A	-/A	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	
$\chi_{95}^{(32)}$	1	-/A	-A	1	-/A	-A	1	-/A	-A	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	
$\chi_{95}^{(33)}$	1	-/A	1	1	-A	-/A	-/A	1	-A	1	-/A	-A	-/A	-A	1	-A	1	-/A	1	-/A	-A	-/A	-A	
$\chi_{95}^{(34)}$	1	-A	1	1	-/A	-A	-A	1	-/A	1	-A	-/A	-A	-/A	1	-/A	1	-A	1	-A	-/A	-A	-/A	
$\chi_{95}^{(35)}$	1	1	-A	1	-A	-/A	-A	-/A	1	-A	1	-/A	-/A	-A	1	1	-/A	-A	-A	1	-/A	-/A	-A	
$\chi_{95}^{(36)}$	1	1	-/A	1	-/A	-A	-/A	-A	1	-/A	1	-A	-A	-/A	1	1	-A	-/A	-/A	1	-A	-A	-/A	
$\chi_{95}^{(37)}$	1	B	B	B	B	B	B	B	B	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	
$\chi_{95}^{(38)}$	1	-B	-B	-B	-B	-B	-B	-B	-B	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	
$\chi_{95}^{(39)}$	1	C	C	B	B	B	-/C	-/C	-/C	/A	/A	/A	-1	-1	-1	A	A	A	-/A	-/A	-/A	1	1	
$\chi_{95}^{(40)}$	1	-/C	-/C	B	B	B	C	C	C	A	A	A	-1	-1	-1	/A	/A	/A	-A	-A	-A	1	1	
$\chi_{95}^{(41)}$	1	-C	-C	-B	-B	-B	/C	/C	/C	/A	/A	/A	-1	-1	-1	A	A	A	-/A	-/A	-/A	1	1	
$\chi_{95}^{(42)}$	1	/C	/C	-B	-B	-B	-C	-C	-C	A	A	A	-1	-1	-1	/A	/A	/A	-A	-A	-A	1	1	
$\chi_{95}^{(43)}$	1	-B	-B	-B	-B	-B	-B	-B	-B	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	
$\chi_{95}^{(44)}$	1	B	B	B	B	B	B	B	B	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	
$\chi_{95}^{(45)}$	1	/C	/C	-B	-B	-B	-C	-C	-C	-A	-A	-A	1	1	1	-/A	-/A	-/A	A	A	A	-1	-1	

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$\chi_{95}^{(46)}$	1	-C	-C	-B	-B	-B	/C	/C	/C	-/A	-/A	-/A	1	1	1	-A	-A	-A	/A	/A	/A	-1	-1
$\chi_{95}^{(47)}$	1	-/C	-/C	B	B	B	C	C	C	-A	-A	-A	1	1	1	-/A	-/A	-/A	A	A	A	-1	-1
$\chi_{95}^{(48)}$	1	C	C	B	B	B	-/C	-/C	-/C	-/A	-/A	-/A	1	1	1	-A	-A	-A	/A	/A	/A	-1	-1
$\chi_{95}^{(49)}$	1	C	-/C	B	C	-/C	B	C	-/C	A	/A	-1	A	/A	-1	A	/A	-1	-A	-/A	1	-A	-/A
$\chi_{95}^{(50)}$	1	-/C	C	B	-/C	C	B	-/C	C	/A	A	-1	/A	A	-1	/A	A	-1	-/A	-A	1	-/A	-A
$\chi_{95}^{(51)}$	1	/C	-C	-B	/C	-C	-B	/C	-C	/A	A	-1	/A	A	-1	/A	A	-1	-/A	-A	1	-/A	-A
$\chi_{95}^{(52)}$	1	-C	/C	-B	-C	/C	-B	-C	/C	A	/A	-1	A	/A	-1	A	/A	-1	-A	-/A	1	-A	-/A
$\chi_{95}^{(53)}$	1	-/C	B	B	C	-/C	-/C	B	C	-1	A	/A	A	/A	-1	/A	-1	A	1	-A	-/A	-A	-/A
$\chi_{95}^{(54)}$	1	C	B	B	-/C	C	C	B	-/C	-1	/A	A	/A	A	-1	A	-1	/A	1	-/A	-A	-/A	-A
$\chi_{95}^{(55)}$	1	-C	-B	-B	/C	-C	-C	-B	/C	-1	/A	A	/A	A	-1	A	-1	/A	1	-/A	-A	-/A	-A
$\chi_{95}^{(56)}$	1	/C	-B	-B	-C	/C	/C	-B	-C	-1	A	/A	A	/A	-1	/A	-1	A	1	-A	-/A	-A	-/A
$\chi_{95}^{(57)}$	1	B	C	B	C	-/C	C	-/C	B	/A	-1	A	A	/A	-1	-1	A	/A	-/A	1	-A	-A	-/A
$\chi_{95}^{(58)}$	1	B	-/C	B	-/C	C	-/C	C	B	A	-1	/A	/A	A	-1	-1	/A	A	-A	1	-/A	-/A	-A
$\chi_{95}^{(59)}$	1	-B	/C	-B	/C	-C	/C	-C	-B	A	-1	/A	/A	A	-1	-1	/A	A	-A	1	-/A	-/A	-A
$\chi_{95}^{(60)}$	1	-B	-C	-B	-C	/C	-C	/C	-B	/A	-1	A	A	/A	-1	-1	A	/A	-/A	1	-A	-A	-/A
$\chi_{95}^{(61)}$	1	-C	/C	-B	-C	/C	-B	-C	/C	-A	-/A	1	-A	-/A	1	-A	-/A	1	A	/A	-1	A	/A
$\chi_{95}^{(62)}$	1	/C	-C	-B	/C	-C	-B	/C	-C	-/A	-A	1	-/A	-A	1	-/A	-A	1	/A	A	-1	/A	A
$\chi_{95}^{(63)}$	1	-/C	C	B	-/C	C	B	-/C	C	-/A	-A	1	-/A	-A	1	-/A	-A	1	/A	A	-1	/A	A
$\chi_{95}^{(64)}$	1	C	-/C	B	C	-/C	B	C	-/C	-A	-/A	1	-A	-/A	1	-A	-/A	1	A	/A	-1	A	/A
$\chi_{95}^{(65)}$	1	-B	-C	-B	-C	/C	-C	/C	-B	-/A	1	-A	-A	-/A	1	1	-A	-/A	/A	-1	A	A	/A
$\chi_{95}^{(66)}$	1	-B	/C	-B	/C	-C	/C	-C	-B	-A	1	-/A	-/A	-A	1	1	-/A	-A	A	-1	/A	/A	A
$\chi_{95}^{(67)}$	1	B	-/C	B	-/C	C	-/C	C	B	-A	1	-/A	-/A	-A	1	1	-/A	-A	A	-1	/A	/A	A
$\chi_{95}^{(68)}$	1	B	C	B	C	-/C	C	-/C	B	-/A	1	-A	-A	-/A	1	1	-A	-/A	/A	-1	A	A	/A
$\chi_{95}^{(69)}$	1	/C	-B	-B	-C	/C	/C	-B	-C	1	-A	-/A	-A	-/A	1	-/A	1	-A	-1	A	/A	A	/A
$\chi_{95}^{(70)}$	1	-C	-B	-B	/C	-C	-C	-B	/C	1	-/A	-A	-/A	-A	1	-A	1	-/A	-1	/A	A	/A	A
$\chi_{95}^{(71)}$	1	C	B	B	-/C	C	C	B	-/C	1	-/A	-A	-/A	-A	1	-A	1	-/A	-1	/A	A	/A	A
$\chi_{95}^{(72)}$	1	-/C	B	B	C	-/C	-/C	B	C	1	-A	-/A	-A	-/A	1	-/A	1	-A	-1	A	/A	A	/A

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$\chi_{95}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{95}^{(2)}$	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{95}^{(3)}$	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{95}^{(4)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1
$\chi_{95}^{(5)}$	1	-/A	-/A	-/A	A	A	A	-1	-1	-1	/A	/A	/A	/A	/A	/A	-1	-1	-1	A	A	A	-/A
$\chi_{95}^{(6)}$	1	-A	-A	-A	/A	/A	/A	-1	-1	-1	A	A	A	A	A	A	-1	-1	-1	/A	/A	/A	-A
$\chi_{95}^{(7)}$	-1	A	A	A	-/A	-/A	-/A	1	1	1	-A	-A	-A	A	A	A	-1	-1	-1	/A	/A	/A	-A
$\chi_{95}^{(8)}$	-1	/A	/A	/A	-A	-A	-A	1	1	1	-/A	-/A	-/A	/A	/A	/A	-1	-1	-1	A	A	A	-/A
$\chi_{95}^{(9)}$	-1	A	A	A	/A	/A	/A	-1	-1	-1	A	A	A	-A	-A	-A	1	1	1	-/A	-/A	-/A	-A
$\chi_{95}^{(10)}$	-1	/A	/A	/A	A	A	A	-1	-1	-1	/A	/A	/A	-/A	-/A	-/A	1	1	1	-A	-A	-A	-/A
$\chi_{95}^{(11)}$	1	-/A	-/A	-/A	-A	-A	-A	1	1	1	-/A	-/A	-/A	-/A	-/A	-/A	1	1	1	-A	-A	-A	-/A
$\chi_{95}^{(12)}$	1	-A	-A	-A	-/A	-/A	-/A	1	1	1	-A	-A	-A	-A	-A	-A	1	1	1	-/A	-/A	-/A	-A
$\chi_{95}^{(13)}$	1	-A	-/A	1	-1	/A	A	-1	/A	A	-1	/A	A	A	/A	-1	A	/A	-1	A	/A	-1	1
$\chi_{95}^{(14)}$	1	-/A	-A	1	-1	A	/A	-1	A	/A	-1	A	/A	/A	A	-1	/A	A	-1	/A	A	-1	1
$\chi_{95}^{(15)}$	1	1	-A	-/A	A	-1	/A	-1	/A	A	/A	A	-1	-1	A	/A	A	/A	-1	/A	-1	A	-/A

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$\chi_{95}^{(16)}$	1	1	-/A	-A	/A	-1	A	-1	A	/A	A	/A	-1	-1	/A	A	/A	A	-1	A	-1	/A	-A
$\chi_{95}^{(17)}$	1	-/A	1	-A	/A	A	-1	-1	/A	A	A	-1	/A	/A	-1	A	A	/A	-1	-1	A	/A	-A
$\chi_{95}^{(18)}$	1	-A	1	-/A	A	/A	-1	-1	A	/A	/A	-1	A	A	-1	/A	/A	A	-1	-1	/A	A	-/A
$\chi_{95}^{(19)}$	-1	A	/A	-1	1	-/A	-A	1	-/A	-A	1	-/A	-A	A	/A	-1	A	/A	-1	A	/A	-1	1
$\chi_{95}^{(20)}$	-1	/A	A	-1	1	-A	-/A	1	-A	-/A	1	-A	-/A	/A	A	-1	/A	A	-1	/A	A	-1	1
$\chi_{95}^{(21)}$	-1	/A	-1	A	-/A	-A	1	1	-/A	-A	-A	1	-/A	/A	-1	A	A	/A	-1	-1	A	/A	-A
$\chi_{95}^{(22)}$	-1	A	-1	/A	-A	-/A	1	1	-A	-/A	-/A	1	-A	A	-1	/A	/A	A	-1	-1	/A	A	-/A
$\chi_{95}^{(23)}$	-1	-1	A	/A	-A	1	-/A	1	-/A	-A	-/A	-A	1	-1	A	/A	A	/A	-1	/A	-1	A	-/A
$\chi_{95}^{(24)}$	-1	-1	/A	A	-/A	1	-A	1	-A	-/A	-A	-/A	1	-1	/A	A	/A	A	-1	A	-1	/A	-A
$\chi_{95}^{(25)}$	-1	/A	A	-1	-1	A	/A	-1	A	/A	-1	A	/A	-/A	-A	1	-/A	-A	1	-/A	-A	1	1
$\chi_{95}^{(26)}$	-1	A	/A	-1	-1	/A	A	-1	/A	A	-1	/A	A	-A	-/A	1	-A	-/A	1	-A	-/A	1	1
$\chi_{95}^{(27)}$	-1	-1	/A	A	/A	-1	A	-1	A	/A	A	/A	-1	1	-/A	-A	-/A	-A	1	-A	1	-/A	-A
$\chi_{95}^{(28)}$	-1	-1	A	/A	A	-1	/A	-1	/A	A	/A	A	-1	1	-A	-/A	-A	-/A	1	-/A	1	-A	-/A
$\chi_{95}^{(29)}$	-1	A	-1	/A	A	/A	-1	-1	A	/A	/A	-1	A	-A	1	-/A	-/A	-A	1	1	-/A	-A	-/A
$\chi_{95}^{(30)}$	-1	/A	-1	A	/A	A	-1	-1	/A	A	A	-1	/A	-/A	1	-A	-A	-/A	1	1	-A	-/A	-A
$\chi_{95}^{(31)}$	1	-/A	-A	1	1	-A	-/A	1	-A	-/A	1	-A	-/A	-/A	-A	1	-/A	-A	1	-/A	-A	1	1
$\chi_{95}^{(32)}$	1	-A	-/A	1	1	-/A	-A	1	-/A	-A	1	-/A	-A	-A	-/A	1	-A	-/A	1	-A	-/A	1	1
$\chi_{95}^{(33)}$	1	-A	1	-/A	-A	-/A	1	1	-A	-/A	-/A	1	-A	-A	1	-/A	-/A	-A	1	1	-/A	-A	-/A
$\chi_{95}^{(34)}$	1	-/A	1	-A	-/A	-A	1	1	-/A	-A	-A	1	-/A	-/A	1	-A	-A	-/A	1	1	-A	-/A	-A
$\chi_{95}^{(35)}$	1	1	-/A	-A	-/A	1	-A	1	-A	-/A	-A	-/A	1	1	-/A	-A	-/A	-A	1	-A	1	-/A	-A
$\chi_{95}^{(36)}$	1	1	-A	-/A	-A	1	-/A	1	-/A	-A	-/A	-A	1	1	-A	-/A	-A	-/A	1	-/A	1	-A	-/A
$\chi_{95}^{(37)}$	1	1	1	1	-B	-B	-B	-B	-B	-B	-B	-B	-B	B	B	B	B	B	B	B	B	B	-1
$\chi_{95}^{(38)}$	1	1	1	1	B	B	B	B	B	B	B	B	B	-B	-B	-B	-B	-B	-B	-B	-B	-B	-1
$\chi_{95}^{(39)}$	1	-A	-A	-A	-C	-C	-C	-B	-B	-B	/C	/C	/C	-/C	-/C	-/C	B	B	B	C	C	C	A
$\chi_{95}^{(40)}$	1	-/A	-/A	-/A	/C	/C	/C	-B	-B	-B	-C	-C	-C	C	C	C	B	B	B	-/C	-/C	-/C	/A
$\chi_{95}^{(41)}$	1	-A	-A	-A	C	C	C	B	B	B	-/C	-/C	-/C	/C	/C	/C	-B	-B	-B	-C	-C	-C	A
$\chi_{95}^{(42)}$	1	-/A	-/A	-/A	-/C	-/C	-/C	B	B	B	C	C	C	-C	-C	-C	-B	-B	-B	/C	/C	/C	/A
$\chi_{95}^{(43)}$	-1	-1	-1	-1	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	-1
$\chi_{95}^{(44)}$	-1	-1	-1	-1	-B	-B	-B	-B	-B	-B	-B	-B	-B	-B	-B	-B	-B	-B	-B	-B	-B	-B	-1
$\chi_{95}^{(45)}$	-1	/A	/A	/A	-/C	-/C	-/C	B	B	B	C	C	C	C	C	C	B	B	B	-/C	-/C	-/C	/A
$\chi_{95}^{(46)}$	-1	A	A	A	C	C	C	B	B	B	-/C	-/C	-/C	-/C	-/C	-/C	B	B	B	C	C	C	A
$\chi_{95}^{(47)}$	-1	/A	/A	/A	/C	/C	/C	-B	-B	-B	-C	-C	-C	-C	-C	-C	-B	-B	-B	/C	/C	/C	/A
$\chi_{95}^{(48)}$	-1	A	A	A	-C	-C	-C	-B	-B	-B	/C	/C	/C	/C	/C	/C	-B	-B	-B	-C	-C	-C	A
$\chi_{95}^{(49)}$	1	-A	-/A	1	-B	-C	/C	-B	-C	/C	-B	-C	/C	-/C	C	B	-/C	C	B	-/C	C	B	-1
$\chi_{95}^{(50)}$	1	-/A	-A	1	-B	/C	-C	-B	/C	-C	-B	/C	-C	C	-/C	B	C	-/C	B	C	-/C	B	-1
$\chi_{95}^{(51)}$	1	-/A	-A	1	B	-/C	C	B	-/C	C	B	-/C	C	-C	/C	-B	-C	/C	-B	-C	/C	-B	-1
$\chi_{95}^{(52)}$	1	-A	-/A	1	B	C	-/C	B	C	-/C	B	C	-/C	/C	-C	-B	/C	-C	-B	/C	-C	-B	-1
$\chi_{95}^{(53)}$	1	-/A	1	-A	-C	/C	-B	-B	-C	/C	/C	-B	-C	C	B	-/C	-/C	C	B	B	-/C	C	A
$\chi_{95}^{(54)}$	1	-A	1	-/A	/C	-C	-B	-B	/C	-C	-C	-B	/C	-/C	B	C	C	-/C	B	B	C	-/C	/A
$\chi_{95}^{(55)}$	1	-A	1	-/A	-/C	C	B	B	-/C	C	C	B	-/C	/C	-B	-C	-C	/C	-B	-B	-C	/C	/A
$\chi_{95}^{(56)}$	1	-/A	1	-A	C	-/C	B	B	C	-/C	-/C	B	C	-C	-B	/C	/C	-C	-B	-B	/C	-C	A
$\chi_{95}^{(57)}$	1	1	-A	-/A	/C	-B	-C	-B	-C	/C	-C	/C	-B	B	-/C	C	-/C	C	B	C	B	-/C	/A
$\chi_{95}^{(58)}$	1	1	-/A	-A	-C	-B	/C	-B	/C	-C	/C	-C	-B	B	C	-/C	C	-/C	B	-/C	B	C	A
$\chi_{95}^{(59)}$	1	1	-/A	-A	C	B	-/C	B	-/C	C	-/C	C	B	-B	-C	/C	-C	/C	-B	/C	-B	-C	A
$\chi_{95}^{(60)}$	1	1	-A	-/A	-/C	B	C	B	C	-/C	C	-/C	B	-B	/C	-C	/C	-C	-B	-C	-B	/C	/A

	30																						
	40																						
$\chi_{95}^{(61)}$	-1	A	/A	-1	B	C	-/C	B	C	-/C	B	C	-/C	-/C	C	B	-/C	C	B	-/C	C	B	-1
$\chi_{95}^{(62)}$	-1	/A	A	-1	B	-/C	C	B	-/C	C	B	-/C	C	C	-/C	B	C	-/C	B	C	-/C	B	-1
$\chi_{95}^{(63)}$	-1	/A	A	-1	-B	/C	-C	-B	/C	-C	-B	/C	-C	-C	/C	-B	-C	/C	-B	-C	/C	-B	-1
$\chi_{95}^{(64)}$	-1	A	/A	-1	-B	-C	/C	-B	-C	/C	-B	-C	/C	/C	-C	-B	/C	-C	-B	/C	-C	-B	-1
$\chi_{95}^{(65)}$	-1	-1	A	/A	-/C	B	C	B	C	-/C	C	-/C	B	B	-/C	C	-/C	C	B	C	B	-/C	/A
$\chi_{95}^{(66)}$	-1	-1	/A	A	C	B	-/C	B	-/C	C	-/C	C	B	B	C	-/C	C	-/C	B	-/C	B	C	A
$\chi_{95}^{(67)}$	-1	-1	/A	A	-C	-B	/C	-B	/C	-C	/C	-C	-B	-B	-C	/C	-C	/C	-B	/C	-B	-C	A
$\chi_{95}^{(68)}$	-1	-1	A	/A	/C	-B	-C	-B	-C	/C	-C	/C	-B	-B	/C	-C	/C	-C	-B	-C	-B	/C	/A
$\chi_{95}^{(69)}$	-1	/A	-1	A	C	-/C	B	B	C	-/C	-/C	B	C	C	B	-/C	-/C	C	B	B	-/C	C	A
$\chi_{95}^{(70)}$	-1	A	-1	/A	-/C	C	B	B	-/C	C	C	B	-/C	-/C	B	C	C	-/C	B	B	C	-/C	/A
$\chi_{95}^{(71)}$	-1	A	-1	/A	/C	-C	-B	-B	/C	-C	-C	-B	/C	/C	-B	-C	-C	/C	-B	-B	-C	/C	/A
$\chi_{95}^{(72)}$	-1	/A	-1	A	-C	/C	-B	-B	-C	/C	/C	-B	-C	-C	-B	/C	/C	-C	-B	-B	/C	-C	A

	50																						
	60																						
$\chi_{95}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{95}^{(2)}$	1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	
$\chi_{95}^{(3)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	
$\chi_{95}^{(4)}$	1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	1	1	1	
$\chi_{95}^{(5)}$	-/A	-/A	1	1	1	-A	-A	-A	-/A	-/A	-/A	A	1	1	-A	-A	-A	/A	/A	/A	-1	-1	
$\chi_{95}^{(6)}$	-A	-A	1	1	1	-/A	-/A	-/A	-A	-A	-A	/A	1	1	-/A	-/A	-/A	A	A	A	-1	-1	
$\chi_{95}^{(7)}$	-A	-A	1	1	1	-/A	-/A	-/A	-A	-A	-A	-/A	1	1	-/A	-/A	-/A	A	A	A	-1	-1	
$\chi_{95}^{(8)}$	-/A	-/A	1	1	1	-A	-A	-A	-/A	-/A	-/A	-A	1	1	-A	-A	-A	/A	/A	/A	-1	-1	
$\chi_{95}^{(9)}$	-A	-A	1	1	1	-/A	-/A	-/A	-A	-A	-A	/A	1	1	-/A	-/A	-/A	-A	-A	-A	1	1	
$\chi_{95}^{(10)}$	-/A	-/A	1	1	1	-A	-A	-A	-/A	-/A	-/A	A	1	1	-A	-A	-A	-/A	-/A	-/A	1	1	
$\chi_{95}^{(11)}$	-/A	-/A	1	1	1	-A	-A	-A	-/A	-/A	-/A	-A	1	1	-A	-A	-A	-/A	-/A	-/A	1	1	
$\chi_{95}^{(12)}$	-A	-A	1	1	1	-/A	-/A	-/A	-A	-A	-A	-/A	1	1	-/A	-/A	-/A	-A	-A	-A	1	1	
$\chi_{95}^{(13)}$	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	-1	-/A	-A	1	-/A	-A	A	/A	-1	A	/A	
$\chi_{95}^{(14)}$	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	-1	-A	-/A	1	-A	-/A	/A	A	-1	/A	A	
$\chi_{95}^{(15)}$	-A	1	1	-/A	-A	-A	1	-/A	-/A	-A	1	A	-/A	-A	-A	1	-/A	-1	A	/A	A	/A	
$\chi_{95}^{(16)}$	-/A	1	1	-A	-/A	-/A	1	-A	-A	-/A	1	/A	-A	-/A	-/A	1	-A	-1	/A	A	/A	A	
$\chi_{95}^{(17)}$	1	-/A	1	-/A	-A	-/A	-A	1	-A	1	-/A	/A	-/A	-A	-/A	-A	1	/A	-1	A	A	/A	
$\chi_{95}^{(18)}$	1	-A	1	-A	-/A	-A	-/A	1	-/A	1	-A	A	-A	-/A	-A	-/A	1	A	-1	/A	/A	A	
$\chi_{95}^{(19)}$	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	A	/A	-1	A	/A	
$\chi_{95}^{(20)}$	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	/A	A	-1	/A	A	
$\chi_{95}^{(21)}$	1	-/A	1	-/A	-A	-/A	-A	1	-A	1	-/A	-/A	-/A	-A	-/A	-A	1	/A	-1	A	A	/A	
$\chi_{95}^{(22)}$	1	-A	1	-A	-/A	-A	-/A	1	-/A	1	-A	-A	-A	-/A	-A	-/A	1	A	-1	/A	/A	A	
$\chi_{95}^{(23)}$	-A	1	1	-/A	-A	-A	1	-/A	-/A	-A	1	-A	-/A	-A	-A	1	-/A	-1	A	/A	A	/A	
$\chi_{95}^{(24)}$	-/A	1	1	-A	-/A	-/A	1	-A	-A	-/A	1	-/A	-A	-/A	-/A	1	-A	-1	/A	A	/A	A	
$\chi_{95}^{(25)}$	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	-1	-A	-/A	1	-A	-/A	-/A	-A	1	-/A	-A	
$\chi_{95}^{(26)}$	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	-1	-/A	-A	1	-/A	-A	-A	-/A	1	-A	-/A	
$\chi_{95}^{(27)}$	-/A	1	1	-A	-/A	-/A	1	-A	-A	-/A	1	/A	-A	-/A	-/A	1	-A	1	-/A	-A	-/A	-A	
$\chi_{95}^{(28)}$	-A	1	1	-/A	-A	-A	1	-/A	-/A	-A	1	A	-/A	-A	-A	1	-/A	1	-A	-/A	-A	-/A	
$\chi_{95}^{(29)}$	1	-A	1	-A	-/A	-A	-/A	1	-/A	1	-A	A	-A	-/A	-A	-/A	1	-A	1	-/A	-/A	-A	
$\chi_{95}^{(30)}$	1	-/A	1	-/A	-A	-/A	-A	1	-A	1	-/A	/A	-/A	-A	-/A	-A	1	-/A	1	-A	-A	-/A	

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$\chi_{95}^{(31)}$	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	1	-A	-/A	-/A	-A	1	-/A	-A
$\chi_{95}^{(32)}$	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	1	-/A	-A	-A	-/A	1	-A	-/A
$\chi_{95}^{(33)}$	1	-A	1	-A	-/A	-A	-/A	1	-/A	1	-A	-A	-A	-/A	-A	-/A	1	-A	1	-/A	-/A	-A
$\chi_{95}^{(34)}$	1	-/A	1	-/A	-A	-/A	-A	1	-A	1	-/A	-/A	-/A	-A	-/A	-A	1	-/A	1	-A	-A	-/A
$\chi_{95}^{(35)}$	-/A	1	1	-A	-/A	-/A	1	-A	-A	-/A	1	-/A	-A	-/A	-/A	1	-A	1	-/A	-A	-/A	-A
$\chi_{95}^{(36)}$	-A	1	1	-/A	-A	-A	1	-/A	-/A	-A	1	-A	-/A	-A	-A	1	-/A	1	-A	-/A	-A	-/A
$\chi_{95}^{(37)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	B	1	1	1	1	1	-B	-B	-B	-B	-B
$\chi_{95}^{(38)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-B	1	1	1	1	1	B	B	B	B	B
$\chi_{95}^{(39)}$	A	A	-1	-1	-1	/A	/A	/A	-A	-A	-A	C	1	1	-/A	-/A	-/A	/C	/C	/C	-B	-B
$\chi_{95}^{(40)}$	/A	/A	-1	-1	-1	A	A	A	-/A	-/A	-/A	-/C	1	1	-A	-A	-A	-C	-C	-C	-B	-B
$\chi_{95}^{(41)}$	A	A	-1	-1	-1	/A	/A	/A	-A	-A	-A	-C	1	1	-/A	-/A	-/A	-/C	-/C	-/C	B	B
$\chi_{95}^{(42)}$	/A	/A	-1	-1	-1	A	A	A	-/A	-/A	-/A	/C	1	1	-A	-A	-A	C	C	C	B	B
$\chi_{95}^{(43)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-B	1	1	1	1	1	-B	-B	-B	-B	-B
$\chi_{95}^{(44)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	B	1	1	1	1	1	B	B	B	B	B
$\chi_{95}^{(45)}$	/A	/A	-1	-1	-1	A	A	A	-/A	-/A	-/A	/C	1	1	-A	-A	-A	-C	-C	-C	-B	-B
$\chi_{95}^{(46)}$	A	A	-1	-1	-1	/A	/A	/A	-A	-A	-A	-C	1	1	-/A	-/A	-/A	/C	/C	/C	-B	-B
$\chi_{95}^{(47)}$	/A	/A	-1	-1	-1	A	A	A	-/A	-/A	-/A	-/C	1	1	-A	-A	-A	C	C	C	B	B
$\chi_{95}^{(48)}$	A	A	-1	-1	-1	/A	/A	/A	-A	-A	-A	C	1	1	-/A	-/A	-/A	-/C	-/C	-/C	B	B
$\chi_{95}^{(49)}$	/A	A	-1	/A	A	-1	/A	A	1	-/A	-A	B	-/A	-A	1	-/A	-A	/C	-C	-B	/C	-C
$\chi_{95}^{(50)}$	A	/A	-1	A	/A	-1	A	/A	1	-A	-/A	B	-A	-/A	1	-A	-/A	-C	/C	-B	-C	/C
$\chi_{95}^{(51)}$	A	/A	-1	A	/A	-1	A	/A	1	-A	-/A	-B	-A	-/A	1	-A	-/A	C	-/C	B	C	-/C
$\chi_{95}^{(52)}$	/A	A	-1	/A	A	-1	/A	A	1	-/A	-A	-B	-/A	-A	1	-/A	-A	-/C	C	B	-/C	C
$\chi_{95}^{(53)}$	-1	/A	-1	/A	A	/A	A	-1	-A	1	-/A	C	-/A	-A	-/A	-A	1	-C	-B	/C	/C	-C
$\chi_{95}^{(54)}$	-1	A	-1	A	/A	A	/A	-1	-/A	1	-A	-/C	-A	-/A	-A	-/A	1	/C	-B	-C	-C	/C
$\chi_{95}^{(55)}$	-1	A	-1	A	/A	A	/A	-1	-/A	1	-A	/C	-A	-/A	-A	-/A	1	-/C	B	C	C	-/C
$\chi_{95}^{(56)}$	-1	/A	-1	/A	A	/A	A	-1	-A	1	-/A	-C	-/A	-A	-/A	-A	1	C	B	-/C	-/C	C
$\chi_{95}^{(57)}$	A	-1	-1	/A	A	A	-1	/A	-/A	-A	1	-/C	-/A	-A	-A	1	-/A	-B	/C	-C	/C	-C
$\chi_{95}^{(58)}$	/A	-1	-1	A	/A	/A	-1	A	-A	-/A	1	C	-A	-/A	-/A	1	-A	-B	-C	/C	-C	/C
$\chi_{95}^{(59)}$	/A	-1	-1	A	/A	/A	-1	A	-A	-/A	1	-C	-A	-/A	-/A	1	-A	B	C	-/C	C	-/C
$\chi_{95}^{(60)}$	A	-1	-1	/A	A	A	-1	/A	-/A	-A	1	/C	-/A	-A	-A	1	-/A	B	-/C	C	-/C	C
$\chi_{95}^{(61)}$	/A	A	-1	/A	A	-1	/A	A	1	-/A	-A	-B	-/A	-A	1	-/A	-A	/C	-C	-B	/C	-C
$\chi_{95}^{(62)}$	A	/A	-1	A	/A	-1	A	/A	1	-A	-/A	-B	-A	-/A	1	-A	-/A	-C	/C	-B	-C	/C
$\chi_{95}^{(63)}$	A	/A	-1	A	/A	-1	A	/A	1	-A	-/A	B	-A	-/A	1	-A	-/A	C	-/C	B	C	-/C
$\chi_{95}^{(64)}$	/A	A	-1	/A	A	-1	/A	A	1	-/A	-A	B	-/A	-A	1	-/A	-A	-/C	C	B	-/C	C
$\chi_{95}^{(65)}$	A	-1	-1	/A	A	A	-1	/A	-/A	-A	1	/C	-/A	-A	-A	1	-/A	-B	/C	-C	/C	-C
$\chi_{95}^{(66)}$	/A	-1	-1	A	/A	/A	-1	A	-A	-/A	1	-C	-A	-/A	-/A	1	-A	-B	-C	/C	-C	/C
$\chi_{95}^{(67)}$	/A	-1	-1	A	/A	/A	-1	A	-A	-/A	1	C	-A	-/A	-/A	1	-A	B	C	-/C	C	-/C
$\chi_{95}^{(68)}$	A	-1	-1	/A	A	A	-1	/A	-/A	-A	1	-/C	-/A	-A	-A	1	-/A	B	-/C	C	-/C	C
$\chi_{95}^{(69)}$	-1	/A	-1	/A	A	/A	A	-1	-A	1	-/A	-C	-/A	-A	-/A	-A	1	-C	-B	/C	/C	-C
$\chi_{95}^{(70)}$	-1	A	-1	A	/A	A	/A	-1	-/A	1	-A	/C	-A	-/A	-A	-/A	1	/C	-B	-C	-C	/C
$\chi_{95}^{(71)}$	-1	A	-1	A	/A	A	/A	-1	-/A	1	-A	-/C	-A	-/A	-A	-/A	1	-/C	B	C	C	-/C
$\chi_{95}^{(72)}$	-1	/A	-1	/A	A	/A	A	-1	-A	1	-/A	C	-/A	-A	-/A	-A	1	C	B	-/C	-/C	C

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$\chi_{95}^{(1)}$	1	1	1	1
$\chi_{95}^{(2)}$	-1	-1	-1	-1
$\chi_{95}^{(3)}$	-1	-1	-1	-1
$\chi_{95}^{(4)}$	1	1	1	1
$\chi_{95}^{(5)}$	-1	A	A	A
$\chi_{95}^{(6)}$	-1	/A	/A	/A
$\chi_{95}^{(7)}$	-1	/A	/A	/A
$\chi_{95}^{(8)}$	-1	A	A	A
$\chi_{95}^{(9)}$	1	-/A	-/A	-/A
$\chi_{95}^{(10)}$	1	-A	-A	-A
$\chi_{95}^{(11)}$	1	-A	-A	-A
$\chi_{95}^{(12)}$	1	-/A	-/A	-/A
$\chi_{95}^{(13)}$	-1	A	/A	-1
$\chi_{95}^{(14)}$	-1	/A	A	-1
$\chi_{95}^{(15)}$	-1	/A	-1	A
$\chi_{95}^{(16)}$	-1	A	-1	/A
$\chi_{95}^{(17)}$	-1	-1	A	/A
$\chi_{95}^{(18)}$	-1	-1	/A	A
$\chi_{95}^{(19)}$	-1	A	/A	-1
$\chi_{95}^{(20)}$	-1	/A	A	-1
$\chi_{95}^{(21)}$	-1	-1	A	/A
$\chi_{95}^{(22)}$	-1	-1	/A	A
$\chi_{95}^{(23)}$	-1	/A	-1	A
$\chi_{95}^{(24)}$	-1	A	-1	/A
$\chi_{95}^{(25)}$	1	-/A	-A	1
$\chi_{95}^{(26)}$	1	-A	-/A	1
$\chi_{95}^{(27)}$	1	-A	1	-/A
$\chi_{95}^{(28)}$	1	-/A	1	-A
$\chi_{95}^{(29)}$	1	1	-/A	-A
$\chi_{95}^{(30)}$	1	1	-A	-/A
$\chi_{95}^{(31)}$	1	-/A	-A	1
$\chi_{95}^{(32)}$	1	-A	-/A	1
$\chi_{95}^{(33)}$	1	1	-/A	-A
$\chi_{95}^{(34)}$	1	1	-A	-/A
$\chi_{95}^{(35)}$	1	-A	1	-/A
$\chi_{95}^{(36)}$	1	-/A	1	-A
$\chi_{95}^{(37)}$	-B	-B	-B	-B
$\chi_{95}^{(38)}$	B	B	B	B
$\chi_{95}^{(39)}$	-B	-C	-C	-C
$\chi_{95}^{(40)}$	-B	/C	/C	/C
$\chi_{95}^{(41)}$	B	C	C	C
$\chi_{95}^{(42)}$	B	-/C	-/C	-/C
$\chi_{95}^{(43)}$	-B	-B	-B	-B
$\chi_{95}^{(44)}$	B	B	B	B
$\chi_{95}^{(45)}$	-B	/C	/C	/C

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$\chi_{95}^{(46)}$	-B	-C	-C	-C
$\chi_{95}^{(47)}$	B	-/C	-/C	-/C
$\chi_{95}^{(48)}$	B	C	C	C
$\chi_{95}^{(49)}$	-B	/C	-C	-B
$\chi_{95}^{(50)}$	-B	-C	/C	-B
$\chi_{95}^{(51)}$	B	C	-/C	B
$\chi_{95}^{(52)}$	B	-/C	C	B
$\chi_{95}^{(53)}$	-B	-B	/C	-C
$\chi_{95}^{(54)}$	-B	-B	-C	/C
$\chi_{95}^{(55)}$	B	B	C	-/C
$\chi_{95}^{(56)}$	B	B	-/C	C
$\chi_{95}^{(57)}$	-B	-C	-B	/C
$\chi_{95}^{(58)}$	-B	/C	-B	-C
$\chi_{95}^{(59)}$	B	-/C	B	C
$\chi_{95}^{(60)}$	B	C	B	-/C
$\chi_{95}^{(61)}$	-B	/C	-C	-B
$\chi_{95}^{(62)}$	-B	-C	/C	-B
$\chi_{95}^{(63)}$	B	C	-/C	B
$\chi_{95}^{(64)}$	B	-/C	C	B
$\chi_{95}^{(65)}$	-B	-C	-B	/C
$\chi_{95}^{(66)}$	-B	/C	-B	-C
$\chi_{95}^{(67)}$	B	-/C	B	C
$\chi_{95}^{(68)}$	B	C	B	-/C
$\chi_{95}^{(69)}$	-B	-B	/C	-C
$\chi_{95}^{(70)}$	-B	-B	-C	/C
$\chi_{95}^{(71)}$	B	B	C	-/C
$\chi_{95}^{(72)}$	B	B	-/C	C

where A = -E(3) = (1-ER(-3))/2 = -b3, B = E(4) = ER(-1) = i, C = E(12)^{11}.

The generators of G^{s96} are:

$$\begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 1 & -1 & 0 & -1 & 2 & -2 & 1 & 0 \\ 1 & -1 & 0 & -2 & 4 & -3 & 1 & 0 \\ 2 & -1 & 0 & -3 & 5 & -4 & 2 & -1 \\ 2 & -1 & 0 & -2 & 4 & -4 & 2 & -1 \\ 1 & -1 & 0 & -1 & 3 & -3 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -2 & 2 & 0 & 0 & 0 \\ 0 & 1 & 0 & -3 & 3 & 0 & 0 & 0 \\ 0 & 0 & 1 & -4 & 4 & 0 & 0 & 0 \\ 0 & 0 & 0 & -5 & 6 & 0 & 0 & 0 \\ 0 & 0 & 0 & -4 & 5 & 0 & 0 & 0 \\ 0 & 0 & 0 & -3 & 3 & 1 & 0 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & -1 & 2 & -1 & 0 \\ 0 & 2 & -1 & 0 & -1 & 2 & -1 & 0 \\ 0 & 2 & -1 & 0 & -2 & 4 & -2 & 0 \\ 0 & 3 & -2 & 0 & -2 & 5 & -3 & 1 \\ 0 & 2 & -2 & 1 & -2 & 4 & -3 & 1 \\ 0 & 1 & -1 & 1 & -2 & 3 & -2 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ 0 & 1 & 1 & -1 & -1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -2 & 0 & 0 & 2 & 0 \\ 0 & 2 & 1 & -2 & -1 & 1 & 3 & 0 \\ 0 & 1 & 1 & -1 & -1 & 0 & 3 & 0 \\ 0 & 1 & 0 & 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ -1 & 0 & 1 & 2 & -2 & -1 & 0 & 0 \\ -2 & 0 & 1 & 3 & -3 & -1 & 1 & -1 \\ -2 & 0 & 2 & 4 & -5 & -1 & 1 & -1 \\ -2 & 0 & 2 & 3 & -4 & -1 & 1 & -1 \\ -1 & -1 & 1 & 3 & -3 & -1 & 1 & -1 \\ -1 & -1 & 1 & 2 & -2 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{96}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 0 & 1 & 1 & -2 & 1 & 0 \\ -2 & -2 & 1 & 1 & 1 & -3 & 1 & 1 \\ -2 & -4 & 1 & 2 & 1 & -4 & 2 & 1 \\ -2 & -3 & 1 & 1 & 1 & -3 & 2 & 1 \\ -1 & -2 & 1 & 0 & 1 & -2 & 1 & 1 \\ -1 & -1 & 1 & 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 0 & 1 & 1 & -2 & 1 & 0 \\ -2 & -2 & 1 & 1 & 1 & -3 & 1 & 1 \\ -2 & -3 & 0 & 2 & 2 & -5 & 2 & 1 \\ -2 & -2 & 0 & 1 & 2 & -4 & 2 & 1 \\ -1 & -1 & 0 & 0 & 2 & -3 & 1 & 1 \\ -1 & 0 & 0 & 0 & 1 & -2 & 1 & 0 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 1 & 0 & 2 & -2 & 0 & 0 \\ -1 & -3 & 2 & 0 & 2 & -3 & 1 & 0 \\ -2 & -5 & 2 & 1 & 3 & -4 & 1 & 0 \\ -2 & -4 & 2 & 0 & 3 & -3 & 1 & 0 \\ -1 & -3 & 1 & 0 & 2 & -2 & 1 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 1 & 0 & 2 & -2 & 0 & 0 \\ -1 & -3 & 2 & 0 & 2 & -3 & 1 & 0 \\ -2 & -4 & 3 & 0 & 3 & -4 & 0 & 1 \\ -2 & -3 & 3 & -1 & 3 & -3 & 0 & 1 \\ -1 & -2 & 2 & -1 & 2 & -2 & 0 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 1 & 0 & 2 & -2 & 0 & 0 \\ -1 & -3 & 2 & 0 & 2 & -3 & 1 & 0 \\ -2 & -4 & 3 & 0 & 3 & -4 & 1 & -1 \\ -2 & -3 & 3 & -1 & 3 & -3 & 1 & -1 \\ -1 & -2 & 2 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 2 & -4 & 2 & 0 \\ 0 & -4 & 1 & 1 & 2 & -5 & 3 & 0 \\ 0 & -3 & 1 & 0 & 2 & -4 & 3 & 0 \\ 0 & -2 & 0 & 0 & 2 & -3 & 2 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 2 & -4 & 2 & 0 \\ 0 & -3 & 2 & 0 & 2 & -5 & 2 & 1 \\ 0 & -2 & 2 & -1 & 2 & -4 & 2 & 1 \\ 0 & -1 & 1 & -1 & 2 & -3 & 1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 2 & -4 & 2 & 0 \\ 0 & -3 & 2 & 0 & 2 & -5 & 3 & -1 \\ 0 & -2 & 2 & -1 & 2 & -4 & 3 & -1 \\ 0 & -1 & 1 & -1 & 2 & -3 & 2 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 2 & -3 & 1 & 0 \\ -1 & -2 & 1 & 0 & 3 & -4 & 1 & 0 \\ -1 & -3 & 0 & 1 & 4 & -6 & 2 & 0 \\ -1 & -2 & 0 & 0 & 4 & -5 & 2 & 0 \\ -1 & -2 & 0 & 0 & 3 & -3 & 1 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 2 & -3 & 1 & 0 \\ -1 & -2 & 1 & 0 & 3 & -4 & 1 & 0 \\ -1 & -2 & 1 & 0 & 4 & -6 & 1 & 1 \\ -1 & -1 & 1 & -1 & 4 & -5 & 1 & 1 \\ -1 & -1 & 1 & -1 & 3 & -3 & 0 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 2 & -3 & 1 & 0 \\ -1 & -2 & 1 & 0 & 3 & -4 & 1 & 0 \\ -1 & -2 & 1 & 0 & 4 & -6 & 2 & -1 \\ -1 & -1 & 1 & -1 & 4 & -5 & 2 & -1 \\ -1 & -1 & 1 & -1 & 3 & -3 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -1 & -2 & 0 & 3 & -1 & -2 & 1 & 0 \\ -2 & -2 & 1 & 3 & -1 & -3 & 1 & 1 \\ -3 & -4 & 1 & 5 & -1 & -4 & 1 & 1 \\ -3 & -3 & 1 & 4 & -1 & -3 & 1 & 1 \\ -2 & -2 & 1 & 3 & -1 & -2 & 0 & 1 \\ -2 & -1 & 1 & 2 & -1 & -1 & 0 & 0 \\ -1 & -1 & 1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -1 & -2 & 0 & 3 & -1 & -2 & 1 & 0 \\ -2 & -2 & 1 & 3 & -1 & -3 & 1 & 1 \\ -2 & -4 & 1 & 5 & -2 & -4 & 2 & 1 \\ -2 & -3 & 1 & 4 & -2 & -3 & 2 & 1 \\ -1 & -2 & 1 & 3 & -2 & -2 & 1 & 1 \\ -1 & -1 & 1 & 2 & -2 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -1 & -2 & 0 & 3 & -1 & -2 & 1 & 0 \\ -2 & -2 & 1 & 3 & -1 & -3 & 1 & 1 \\ -2 & -3 & 0 & 5 & -1 & -5 & 2 & 1 \\ -2 & -2 & 0 & 4 & -1 & -4 & 2 & 1 \\ -1 & -1 & 0 & 3 & -1 & -3 & 1 & 1 \\ -1 & 0 & 0 & 2 & -1 & -2 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ -1 & -3 & 2 & 2 & 0 & -3 & 1 & 0 \\ -2 & -5 & 2 & 4 & 0 & -4 & 1 & 0 \\ -2 & -4 & 2 & 3 & 0 & -3 & 1 & 0 \\ -1 & -3 & 1 & 3 & -1 & -2 & 1 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ -1 & -3 & 2 & 2 & 0 & -3 & 1 & 0 \\ -2 & -4 & 3 & 3 & 0 & -4 & 0 & 1 \\ -2 & -3 & 3 & 2 & 0 & -3 & 0 & 1 \\ -1 & -2 & 2 & 2 & -1 & -2 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ -1 & -3 & 2 & 2 & 0 & -3 & 1 & 0 \\ -2 & -4 & 3 & 3 & 0 & -4 & 1 & -1 \\ -2 & -3 & 3 & 2 & 0 & -3 & 1 & -1 \\ -1 & -2 & 2 & 2 & -1 & -2 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -4 & 1 & 4 & -1 & -5 & 3 & 0 \\ 0 & -3 & 1 & 3 & -1 & -4 & 3 & 0 \\ 0 & -2 & 0 & 3 & -1 & -3 & 2 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -3 & 2 & 3 & -1 & -5 & 2 & 1 \\ 0 & -2 & 2 & 2 & -1 & -4 & 2 & 1 \\ 0 & -1 & 1 & 2 & -1 & -3 & 1 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -3 & 2 & 3 & -1 & -5 & 3 & -1 \\ 0 & -2 & 2 & 2 & -1 & -4 & 3 & -1 \\ 0 & -1 & 1 & 2 & -1 & -3 & 2 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 & -3 & 1 & 0 \\ -1 & -2 & 1 & 2 & 1 & -4 & 1 & 0 \\ -1 & -3 & 0 & 4 & 1 & -6 & 2 & 0 \\ -1 & -2 & 0 & 3 & 1 & -5 & 2 & 0 \\ -1 & -2 & 0 & 3 & 0 & -3 & 1 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 & -3 & 1 & 0 \\ -1 & -2 & 1 & 2 & 1 & -4 & 1 & 0 \\ -1 & -2 & 1 & 3 & 1 & -6 & 1 & 1 \\ -1 & -1 & 1 & 2 & 1 & -5 & 1 & 1 \\ -1 & -1 & 1 & 2 & 0 & -3 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 & -3 & 1 & 0 \\ -1 & -2 & 1 & 2 & 1 & -4 & 1 & 0 \\ -1 & -2 & 1 & 3 & 1 & -6 & 2 & -1 \\ -1 & -1 & 1 & 2 & 1 & -5 & 2 & -1 \\ -1 & -1 & 1 & 2 & 0 & -3 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ -2 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \\ -3 & -1 & 1 & -1 & 2 & -1 & -1 & 2 \\ -3 & -1 & 1 & 0 & 1 & -1 & -1 & 2 \\ -2 & -1 & 1 & 0 & 1 & -1 & -1 & 1 \\ -2 & -1 & 1 & 0 & 1 & -1 & 0 & 0 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ -2 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \\ -2 & -1 & 1 & -1 & 1 & -1 & 0 & 2 \\ -2 & -1 & 1 & 0 & 0 & -1 & 0 & 2 \\ -1 & -1 & 1 & 0 & 0 & -1 & 0 & 1 \\ -1 & -1 & 1 & 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ -2 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \\ -2 & 0 & 0 & -1 & 2 & -2 & 0 & 2 \\ -2 & 0 & 0 & 0 & 1 & -2 & 0 & 2 \\ -1 & 0 & 0 & 0 & 1 & -2 & 0 & 1 \\ -1 & 0 & 0 & 0 & 1 & -2 & 1 & 0 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -2 & 0 & 0 & 1 & 1 & -2 & 1 \\ -2 & -2 & 0 & 1 & 0 & 1 & -2 & 1 \\ -1 & -2 & 0 & 1 & 0 & 0 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -2 & 0 & 0 & 1 & 1 & -1 & -1 \\ -2 & -2 & 0 & 1 & 0 & 1 & -1 & -1 \\ -1 & -2 & 0 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -1 & 1 & -1 & 1 & 1 & -2 & 0 \\ -2 & -1 & 1 & 0 & 0 & 1 & -2 & 0 \\ -1 & -1 & 1 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -1 & 0 & -2 & 0 & 2 & -1 & 0 & -1 \\ -1 & 0 & -2 & 1 & 1 & -1 & 0 & -1 \\ -1 & -1 & -1 & 1 & 1 & -1 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ -1 & -1 & 0 & 3 & -2 & -1 & 0 & 1 \\ -2 & 0 & 1 & 3 & -3 & -1 & 0 & 1 \\ -3 & -1 & 1 & 5 & -4 & -1 & -1 & 2 \\ -3 & -1 & 1 & 4 & -3 & -1 & -1 & 2 \\ -2 & -1 & 1 & 3 & -2 & -1 & -1 & 1 \\ -2 & -1 & 1 & 2 & -1 & -1 & 0 & 0 \\ -1 & -1 & 1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ -1 & -1 & 0 & 3 & -2 & -1 & 0 & 1 \\ -2 & 0 & 1 & 3 & -3 & -1 & 0 & 1 \\ -2 & -1 & 1 & 5 & -5 & -1 & 0 & 2 \\ -2 & -1 & 1 & 4 & -4 & -1 & 0 & 2 \\ -1 & -1 & 1 & 3 & -3 & -1 & 0 & 1 \\ -1 & -1 & 1 & 2 & -2 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ -1 & -1 & 0 & 3 & -2 & -1 & 0 & 1 \\ -2 & 0 & 1 & 3 & -3 & -1 & 0 & 1 \\ -2 & 0 & 0 & 5 & -4 & -2 & 0 & 2 \\ -2 & 0 & 0 & 4 & -3 & -2 & 0 & 2 \\ -1 & 0 & 0 & 3 & -2 & -2 & 0 & 1 \\ -1 & 0 & 0 & 2 & -1 & -2 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ -1 & -1 & 0 & 3 & -2 & 0 & -1 & 0 \\ -1 & -1 & 0 & 4 & -4 & 1 & -1 & 0 \\ -2 & -2 & 0 & 6 & -5 & 1 & -2 & 1 \\ -2 & -2 & 0 & 5 & -4 & 1 & -2 & 1 \\ -1 & -2 & 0 & 4 & -3 & 0 & -1 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ -1 & -1 & 0 & 3 & -2 & 0 & -1 & 0 \\ -1 & -1 & 0 & 4 & -4 & 1 & -1 & 0 \\ -2 & -2 & 0 & 6 & -5 & 1 & -1 & -1 \\ -2 & -2 & 0 & 5 & -4 & 1 & -1 & -1 \\ -1 & -2 & 0 & 4 & -3 & 0 & 0 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ -1 & -1 & 0 & 3 & -2 & 0 & -1 & 0 \\ -1 & -1 & 0 & 4 & -4 & 1 & -1 & 0 \\ -2 & -1 & 1 & 5 & -5 & 1 & -2 & 0 \\ -2 & -1 & 1 & 4 & -4 & 1 & -2 & 0 \\ -1 & -1 & 1 & 3 & -3 & 0 & -1 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ 0 & -1 & 0 & 3 & -3 & 0 & 0 & 0 \\ 0 & 0 & -1 & 4 & -4 & 0 & 0 & 0 \\ 0 & -1 & -1 & 6 & -6 & 0 & 1 & -1 \\ 0 & -1 & -1 & 5 & -5 & 0 & 1 & -1 \\ 0 & -1 & -1 & 4 & -3 & -1 & 1 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ 0 & -1 & 0 & 3 & -3 & 0 & 0 & 0 \\ 0 & 0 & -1 & 4 & -4 & 0 & 0 & 0 \\ 0 & 0 & 0 & 5 & -6 & 0 & 0 & 0 \\ 0 & 0 & 0 & 4 & -5 & 0 & 0 & 0 \\ 0 & 0 & 0 & 3 & -3 & -1 & 0 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ 0 & 0 & -1 & 3 & -2 & -1 & 0 & 0 \\ -1 & 0 & -1 & 4 & -3 & 0 & -1 & 0 \\ -1 & 0 & -2 & 6 & -4 & -1 & 0 & -1 \\ -1 & 0 & -2 & 5 & -3 & -1 & 0 & -1 \\ -1 & -1 & -1 & 4 & -2 & -1 & 0 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 1 & 0 & 0 \\ -1 & 1 & 0 & -2 & 1 & 1 & 0 & 1 \\ -2 & 2 & 1 & -3 & 1 & 1 & 0 & 1 \\ -3 & 2 & 1 & -4 & 2 & 2 & -1 & 2 \\ -3 & 2 & 1 & -3 & 1 & 2 & -1 & 2 \\ -2 & 2 & 1 & -3 & 1 & 2 & -1 & 1 \\ -2 & 1 & 1 & -2 & 1 & 1 & 0 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 1 & 0 & 0 \\ -1 & 1 & 0 & -2 & 1 & 1 & 0 & 1 \\ -2 & 2 & 1 & -3 & 1 & 1 & 0 & 1 \\ -2 & 2 & 1 & -4 & 1 & 2 & 0 & 2 \\ -2 & 2 & 1 & -3 & 0 & 2 & 0 & 2 \\ -1 & 2 & 1 & -3 & 0 & 2 & 0 & 1 \\ -1 & 1 & 1 & -2 & 0 & 1 & 1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 1 & 0 & 0 \\ -1 & 1 & 0 & -2 & 1 & 1 & 0 & 1 \\ -2 & 2 & 1 & -3 & 1 & 1 & 0 & 1 \\ -2 & 3 & 0 & -4 & 2 & 1 & 0 & 2 \\ -2 & 3 & 0 & -3 & 1 & 1 & 0 & 2 \\ -1 & 3 & 0 & -3 & 1 & 1 & 0 & 1 \\ -1 & 2 & 0 & -2 & 1 & 0 & 1 & 0 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 1 & 0 & 1 \\ -2 & 2 & 1 & 1 & -3 & 1 & 0 & 1 \\ -3 & 2 & 1 & 2 & -4 & 2 & -1 & 2 \\ -3 & 2 & 1 & 1 & -3 & 2 & -1 & 2 \\ -2 & 2 & 1 & 0 & -2 & 2 & -1 & 1 \\ -2 & 1 & 1 & 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 1 & 0 & 1 \\ -2 & 2 & 1 & 1 & -3 & 1 & 0 & 1 \\ -2 & 2 & 1 & 2 & -5 & 2 & 0 & 2 \\ -2 & 2 & 1 & 1 & -4 & 2 & 0 & 2 \\ -1 & 2 & 1 & 0 & -3 & 2 & 0 & 1 \\ -1 & 1 & 1 & 0 & -2 & 1 & 1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 1 & 0 & 1 \\ -2 & 2 & 1 & 1 & -3 & 1 & 0 & 1 \\ -2 & 3 & 0 & 2 & -4 & 1 & 0 & 2 \\ -2 & 3 & 0 & 1 & -3 & 1 & 0 & 2 \\ -1 & 3 & 0 & 0 & -2 & 1 & 0 & 1 \\ -1 & 2 & 0 & 0 & -1 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 1 & 0 & 3 & -5 & 4 & -2 & 1 \\ -2 & 1 & 0 & 2 & -4 & 4 & -2 & 1 \\ -1 & 1 & 0 & 1 & -3 & 3 & -1 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 1 & 0 & 3 & -5 & 4 & -1 & -1 \\ -2 & 1 & 0 & 2 & -4 & 4 & -1 & -1 \\ -1 & 1 & 0 & 1 & -3 & 3 & 0 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 2 & 1 & 2 & -5 & 4 & -2 & 0 \\ -2 & 2 & 1 & 1 & -4 & 4 & -2 & 0 \\ -1 & 2 & 1 & 0 & -3 & 3 & -1 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 2 & -1 & 3 & -6 & 3 & 1 & -1 \\ 0 & 2 & -1 & 2 & -5 & 3 & 1 & -1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 1 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & 0 & 2 & -6 & 3 & 0 & 0 \\ 0 & 3 & 0 & 1 & -5 & 3 & 0 & 0 \\ 0 & 3 & 0 & 0 & -3 & 2 & 0 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ -1 & 2 & -1 & 2 & -3 & 2 & -1 & 0 \\ -1 & 3 & -2 & 3 & -4 & 2 & 0 & -1 \\ -1 & 3 & -2 & 2 & -3 & 2 & 0 & -1 \\ -1 & 2 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -2 & 1 & -1 & 2 & -1 & 0 & 0 \\ 1 & -2 & 1 & -2 & 3 & -2 & 1 & 0 \\ 1 & -4 & 1 & -2 & 4 & -2 & 1 & 0 \\ 1 & -4 & 1 & -1 & 3 & -2 & 1 & 0 \\ 1 & -3 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -2 & 1 & -1 & 2 & -1 & 0 & 0 \\ 1 & -2 & 1 & -2 & 3 & -2 & 1 & 0 \\ 1 & -3 & 2 & -3 & 4 & -2 & 0 & 1 \\ 1 & -3 & 2 & -2 & 3 & -2 & 0 & 1 \\ 1 & -2 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -2 & 1 & -1 & 2 & -1 & 0 & 0 \\ 1 & -2 & 1 & -2 & 3 & -2 & 1 & 0 \\ 1 & -3 & 2 & -3 & 4 & -2 & 1 & -1 \\ 1 & -3 & 2 & -2 & 3 & -2 & 1 & -1 \\ 1 & -2 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -3 & 0 & -2 & 6 & -3 & 0 & 0 \\ 0 & -3 & 0 & -1 & 5 & -3 & 0 & 0 \\ 0 & -3 & 0 & 0 & 3 & -2 & 0 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -2 & 1 & -3 & 6 & -3 & 0 & -1 \\ 0 & -2 & 1 & -2 & 5 & -3 & 0 & -1 \\ 0 & -2 & 1 & -1 & 3 & -2 & 0 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 1 & -1 & 0 & -1 & 2 & -2 & 1 & 0 \\ 1 & -1 & 0 & -2 & 4 & -3 & 1 & 0 \\ 2 & -1 & 0 & -3 & 5 & -4 & 2 & -1 \\ 2 & -1 & 0 & -2 & 4 & -4 & 2 & -1 \\ 1 & -1 & 0 & -1 & 3 & -3 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & 0 & 0 \\ 0 & -2 & 1 & 2 & -1 & -1 & 0 & 0 \\ 1 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 1 & -4 & 1 & 4 & -2 & -2 & 1 & 0 \\ 1 & -4 & 1 & 3 & -1 & -2 & 1 & 0 \\ 1 & -3 & 0 & 3 & -1 & -2 & 1 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & 0 & 0 \\ 0 & -2 & 1 & 2 & -1 & -1 & 0 & 0 \\ 1 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 1 & -3 & 2 & 3 & -2 & -2 & 0 & 1 \\ 1 & -3 & 2 & 2 & -1 & -2 & 0 & 1 \\ 1 & -2 & 1 & 2 & -1 & -2 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & 0 & 0 \\ 0 & -2 & 1 & 2 & -1 & -1 & 0 & 0 \\ 1 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 1 & -3 & 2 & 3 & -2 & -2 & 1 & -1 \\ 1 & -3 & 2 & 2 & -1 & -2 & 1 & -1 \\ 1 & -2 & 1 & 2 & -1 & -2 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & 0 & 0 \\ 0 & -1 & 0 & 2 & 0 & -2 & 0 & 0 \\ 0 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ 0 & -3 & 0 & 4 & 0 & -3 & 0 & 0 \\ 0 & -3 & 0 & 3 & 1 & -3 & 0 & 0 \\ 0 & -3 & 0 & 3 & 0 & -2 & 0 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & 0 & 0 \\ 0 & -1 & 0 & 2 & 0 & -2 & 0 & 0 \\ 0 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ 0 & -2 & 1 & 3 & 0 & -3 & 0 & -1 \\ 0 & -2 & 1 & 2 & 1 & -3 & 0 & -1 \\ 0 & -2 & 1 & 2 & 0 & -2 & 0 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & 0 & 0 \\ 1 & -1 & 0 & 2 & -1 & -2 & 1 & 0 \\ 1 & -1 & 0 & 2 & 0 & -3 & 1 & 0 \\ 2 & -1 & 0 & 3 & -1 & -4 & 2 & -1 \\ 2 & -1 & 0 & 2 & 0 & -4 & 2 & -1 \\ 1 & -1 & 0 & 2 & 0 & -3 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & -1 & 1 & 1 & 0 \\ 1 & 0 & 0 & 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & 0 & 2 & 0 & -2 & 1 & 0 & 1 \\ 1 & 0 & 2 & -1 & -1 & 1 & 0 & 1 \\ 1 & 1 & 1 & -1 & -1 & 1 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & 0 & 2 & 0 & -2 & 1 & 1 & -1 \\ 1 & 0 & 2 & -1 & -1 & 1 & 1 & -1 \\ 1 & 1 & 1 & -1 & -1 & 1 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 0 & 1 & 1 & -2 & 1 & 0 \\ -2 & -2 & 1 & 1 & 1 & -3 & 1 & 1 \\ -3 & -4 & 1 & 2 & 2 & -4 & 1 & 1 \\ -3 & -3 & 1 & 1 & 2 & -3 & 1 & 1 \\ -2 & -2 & 1 & 0 & 2 & -2 & 0 & 1 \\ -2 & -1 & 1 & 0 & 1 & -1 & 0 & 0 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 1 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 2 & 2 & 0 & 0 & -1 & -1 & 2 & -1 \\ 2 & 2 & 0 & -1 & 0 & -1 & 2 & -1 \\ 1 & 2 & 0 & -1 & 0 & 0 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}.$$

The character table of G^{s96}:

									10										20					
$\chi_{96}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{96}^{(2)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{96}^{(3)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{96}^{(4)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{96}^{(5)}$	1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{96}^{(6)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{96}^{(7)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{96}^{(8)}$	1	-1	-1	1	1	1	1	1	1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{96}^{(9)}$	1	-1	A	/A	-1	A	-1	A	/A	A	/A	-1	-/A	1	-A	-/A	1	-A	1	-A	-/A	-A	-/A	1
$\chi_{96}^{(10)}$	1	-1	/A	A	-1	/A	-1	/A	A	/A	A	-1	-A	1	-/A	-A	1	-/A	1	-/A	-A	-/A	-A	1
$\chi_{96}^{(11)}$	1	1	-A	/A	-1	A	-1	A	/A	A	/A	-1	/A	-1	A	-/A	1	-A	1	-A	-/A	-A	-/A	1
$\chi_{96}^{(12)}$	1	1	-/A	A	-1	/A	-1	/A	A	/A	A	-1	A	-1	/A	-A	1	-/A	1	-/A	-A	-/A	-A	1
$\chi_{96}^{(13)}$	1	1	-/A	-A	1	-/A	1	-/A	-A	-/A	-A	1	A	-1	/A	A	-1	/A	-1	/A	A	/A	A	-1
$\chi_{96}^{(14)}$	1	1	-A	-/A	1	-A	1	-A	-/A	-A	-/A	1	/A	-1	A	/A	-1	A	-1	A	/A	A	/A	-1
$\chi_{96}^{(15)}$	1	-1	/A	-A	1	-/A	1	-/A	-A	-/A	-A	1	-A	1	-/A	A	-1	/A	-1	/A	A	/A	A	-1
$\chi_{96}^{(16)}$	1	-1	A	-/A	1	-A	1	-A	-/A	-A	-/A	1	-/A	1	-A	/A	-1	A	-1	A	/A	A	/A	-1
$\chi_{96}^{(17)}$	1	1	-A	/A	-1	A	-1	A	/A	A	/A	-1	-/A	1	-A	/A	-1	A	-1	A	/A	A	/A	-1
$\chi_{96}^{(18)}$	1	1	-/A	A	-1	/A	-1	/A	A	/A	A	-1	-A	1	-/A	A	-1	/A	-1	/A	A	/A	A	-1
$\chi_{96}^{(19)}$	1	-1	A	/A	-1	A	-1	A	/A	A	/A	-1	/A	-1	A	/A	-1	A	-1	A	/A	A	/A	-1
$\chi_{96}^{(20)}$	1	-1	/A	A	-1	/A	-1	/A	A	/A	A	-1	A	-1	/A	A	-1	/A	-1	/A	A	/A	A	-1
$\chi_{96}^{(21)}$	1	-1	/A	-A	1	-/A	1	-/A	-A	-/A	-A	1	A	-1	/A	-A	1	-/A	1	-/A	-A	-/A	-A	1
$\chi_{96}^{(22)}$	1	-1	A	-/A	1	-A	1	-A	-/A	-A	-/A	1	/A	-1	A	-/A	1	-A	1	-A	-/A	-A	-/A	1
$\chi_{96}^{(23)}$	1	1	-/A	-A	1	-/A	1	-/A	-A	-/A	-A	1	-A	1	-/A	-A	1	-/A	1	-/A	-A	-/A	-A	1
$\chi_{96}^{(24)}$	1	1	-A	-/A	1	-A	1	-A	-/A	-A	-/A	1	-/A	1	-A	-/A	1	-A	1	-A	-/A	-A	-/A	1
$\chi_{96}^{(25)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(26)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(27)}$	2	.	.	1	1	-2	-2	1	1	1	-2	1	.	.	.	1	1	-2	-2	1	1	1	-2	1
$\chi_{96}^{(28)}$	2	.	.	-1	-1	2	2	-1	-1	-1	2	-1	.	.	.	-1	-1	2	2	-1	-1	-1	2	-1
$\chi_{96}^{(29)}$	2	.	.	1	1	-2	-2	1	1	1	-2	1	.	.	.	-1	-1	2	2	-1	-1	-1	2	-1
$\chi_{96}^{(30)}$	2	.	.	-1	-1	2	2	-1	-1	-1	2	-1	.	.	.	1	1	-2	-2	1	1	1	-2	1
$\chi_{96}^{(31)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(32)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(33)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(34)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(35)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(36)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(37)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(38)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(39)}$	2	.	.	B	-B	.	.	B	-B	-B	.	B	.	.	.	B	-B	.	.	B	-B	-B	.	B
$\chi_{96}^{(40)}$	2	.	.	-B	B	.	.	-B	B	B	.	-B	.	.	.	-B	B	.	.	-B	B	B	.	-B
$\chi_{96}^{(41)}$	2	.	.	C	B	.	.	-/C	-C	/C	.	-B	.	.	.	C	B	.	.	-/C	-C	/C	.	-B
$\chi_{96}^{(42)}$	2	.	.	/C	-B	.	.	-C	-/C	C	.	B	.	.	.	/C	-B	.	.	-C	-/C	C	.	B
$\chi_{96}^{(43)}$	2	.	.	-C	-B	.	.	/C	C	-/C	.	B	.	.	.	-C	-B	.	.	/C	C	-/C	.	B
$\chi_{96}^{(44)}$	2	.	.	-/C	B	.	.	C	/C	-C	.	-B	.	.	.	-/C	B	.	.	C	/C	-C	.	-B
$\chi_{96}^{(45)}$	2	.	.	B	-B	.	.	B	-B	-B	.	B	.	.	.	-B	B	.	.	-B	B	B	.	-B

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$\chi_{96}^{(46)}$	2	.	.	-B	B	.	.	-B	B	B	.	-B	.	.	.	B	-B	.	.	B	-B	-B	.	B
$\chi_{96}^{(47)}$	2	.	.	C	B	.	.	-/C	-C	/C	.	-B	.	.	.	-C	-B	.	.	/C	C	-/C	.	B
$\chi_{96}^{(48)}$	2	.	.	/C	-B	.	.	-C	-/C	C	.	B	.	.	.	-/C	B	.	.	C	/C	-C	.	-B
$\chi_{96}^{(49)}$	2	.	.	-C	-B	.	.	/C	C	-/C	.	B	.	.	.	C	B	.	.	-/C	-C	/C	.	-B
$\chi_{96}^{(50)}$	2	.	.	-/C	B	.	.	C	/C	-C	.	-B	.	.	.	/C	-B	.	.	-C	-/C	C	.	B
$\chi_{96}^{(51)}$	2	.	.	/A	-1	D	2	A	/A	A	/D	-1	.	.	.	/A	-1	D	2	A	/A	A	/D	-1
$\chi_{96}^{(52)}$	2	.	.	A	-1	/D	2	/A	A	/A	D	-1	.	.	.	A	-1	/D	2	/A	A	/A	D	-1
$\chi_{96}^{(53)}$	2	.	.	-/A	1	-D	-2	-A	-/A	-A	-/D	1	.	.	.	-/A	1	-D	-2	-A	-/A	-A	-/D	1
$\chi_{96}^{(54)}$	2	.	.	-A	1	-/D	-2	-/A	-A	-/A	-D	1	.	.	.	-A	1	-/D	-2	-/A	-A	-/A	-D	1
$\chi_{96}^{(55)}$	2	.	.	/A	-1	D	2	A	/A	A	/D	-1	.	.	.	-/A	1	-D	-2	-A	-/A	-A	-/D	1
$\chi_{96}^{(56)}$	2	.	.	A	-1	/D	2	/A	A	/A	D	-1	.	.	.	-A	1	-/D	-2	-/A	-A	-/A	-D	1
$\chi_{96}^{(57)}$	2	.	.	-/A	1	-D	-2	-A	-/A	-A	-/D	1	.	.	.	/A	-1	D	2	A	/A	A	/D	-1
$\chi_{96}^{(58)}$	2	.	.	-A	1	-/D	-2	-/A	-A	-/A	-D	1	.	.	.	A	-1	/D	2	/A	A	/A	D	-1
$\chi_{96}^{(59)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(60)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(61)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(62)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(63)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(64)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(65)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(66)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(67)}$	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(68)}$	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(69)}$	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(70)}$	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(71)}$	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{96}^{(72)}$	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{96}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{96}^{(2)}$	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{96}^{(3)}$	-1	-1	-1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{96}^{(4)}$	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{96}^{(5)}$	-1	-1	-1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{96}^{(6)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{96}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{96}^{(8)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{96}^{(9)}$	-A	-/A	1	-A	1	-/A	-A	1	-/A	A	/A	-1	A	-1	/A	A	-1	/A	A	/A	-1	-A	-/A	1
$\chi_{96}^{(10)}$	-/A	-A	1	-/A	1	-A	-/A	1	-A	/A	A	-1	/A	-1	A	/A	-1	A	/A	A	-1	-/A	-A	1
$\chi_{96}^{(11)}$	A	/A	-1	-A	1	-/A	-A	1	-/A	-A	-/A	1	A	-1	/A	A	-1	/A	-A	-/A	1	A	/A	-1
$\chi_{96}^{(12)}$	/A	A	-1	-/A	1	-A	-/A	1	-A	-/A	-A	1	/A	-1	A	/A	-1	A	-/A	-A	1	/A	A	-1
$\chi_{96}^{(13)}$	-/A	-A	1	-/A	1	-A	-/A	1	-A	/A	A	-1	/A	-1	A	/A	-1	A	/A	A	-1	-/A	-A	1
$\chi_{96}^{(14)}$	-A	-/A	1	-A	1	-/A	-A	1	-/A	A	/A	-1	A	-1	/A	A	-1	/A	A	/A	-1	-A	-/A	1
$\chi_{96}^{(15)}$	/A	A	-1	-/A	1	-A	-/A	1	-A	-/A	-A	1	/A	-1	A	/A	-1	A	-/A	-A	1	/A	A	-1

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$\chi_{96}^{(16)}$	A	/A	-1	-A	1	-/A	-A	1	-/A	-A	-/A	1	A	-1	/A	A	-1	/A	-A	-/A	1	A	/A	-1
$\chi_{96}^{(17)}$	A	/A	-1	-A	1	-/A	-A	1	-/A	A	/A	-1	-A	1	-/A	-A	1	-/A	A	/A	-1	A	/A	-1
$\chi_{96}^{(18)}$	/A	A	-1	-/A	1	-A	-/A	1	-A	/A	A	-1	-/A	1	-A	-/A	1	-A	/A	A	-1	/A	A	-1
$\chi_{96}^{(19)}$	-A	-/A	1	-A	1	-/A	-A	1	-/A	-A	-/A	1	-A	1	-/A	-A	1	-/A	-A	-/A	1	-A	-/A	1
$\chi_{96}^{(20)}$	-/A	-A	1	-/A	1	-A	-/A	1	-A	-/A	-A	1	-/A	1	-A	-/A	1	-A	-/A	-A	1	-/A	-A	1
$\chi_{96}^{(21)}$	/A	A	-1	-/A	1	-A	-/A	1	-A	/A	A	-1	-/A	1	-A	-/A	1	-A	/A	A	-1	/A	A	-1
$\chi_{96}^{(22)}$	A	/A	-1	-A	1	-/A	-A	1	-/A	A	/A	-1	-A	1	-/A	-A	1	-/A	A	/A	-1	A	/A	-1
$\chi_{96}^{(23)}$	-/A	-A	1	-/A	1	-A	-/A	1	-A	-/A	-A	1	-/A	1	-A	-/A	1	-A	-/A	-A	1	-/A	-A	1
$\chi_{96}^{(24)}$	-A	-/A	1	-A	1	-/A	-A	1	-/A	-A	-/A	1	-A	1	-/A	-A	1	-/A	-A	-/A	1	-A	-/A	1
$\chi_{96}^{(25)}$	.	.	.	-2	-2	-2	-2	-2	-2	.	.	.	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.
$\chi_{96}^{(26)}$	.	.	.	-2	-2	-2	-2	-2	-2	.	.	.	2	2	2	2	2	2	.	.	.	.	.	.
$\chi_{96}^{(27)}$	.	.	.	2	-1	-1	-1	2	2	.	.	.	2	-1	-1	-1	2	2	.	.	.	.	.	.
$\chi_{96}^{(28)}$	.	.	.	2	-1	-1	-1	2	2	.	.	.	2	-1	-1	-1	2	2	.	.	.	.	.	.
$\chi_{96}^{(29)}$	.	.	.	2	-1	-1	-1	2	2	.	.	.	-2	1	1	1	-2	-2	.	.	.	.	.	.
$\chi_{96}^{(30)}$	.	.	.	2	-1	-1	-1	2	2	.	.	.	-2	1	1	1	-2	-2	.	.	.	.	.	.
$\chi_{96}^{(31)}$	.	.	.	2	2	2	2	2	2	-2	-2	-2	.	.	.	.	.	.	2	2	2	.	.	.
$\chi_{96}^{(32)}$	.	.	.	2	2	2	2	2	2	2	2	2	.	.	.	.	.	.	-2	-2	-2	.	.	.
$\chi_{96}^{(33)}$	-2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2
$\chi_{96}^{(34)}$	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2
$\chi_{96}^{(35)}$	.	.	.	-D	-2	-/D	-D	-2	-/D	.	.	.	-D	-2	-/D	-D	-2	-/D	.	.	.	.	.	.
$\chi_{96}^{(36)}$	.	.	.	-/D	-2	-D	-/D	-2	-D	.	.	.	-/D	-2	-D	-/D	-2	-D	.	.	.	.	.	.
$\chi_{96}^{(37)}$	.	.	.	-D	-2	-/D	-D	-2	-/D	.	.	.	D	2	/D	D	2	/D	.	.	.	.	.	.
$\chi_{96}^{(38)}$	.	.	.	-/D	-2	-D	-/D	-2	-D	.	.	.	/D	2	D	/D	2	D	.	.	.	.	.	.
$\chi_{96}^{(39)}$	.	.	.	-2	1	1	1	-2	-2	.	.	.	-2	1	1	1	-2	-2	.	.	.	.	.	.
$\chi_{96}^{(40)}$	.	.	.	-2	1	1	1	-2	-2	.	.	.	-2	1	1	1	-2	-2	.	.	.	.	.	.
$\chi_{96}^{(41)}$	.	.	.	-D	1	-/A	-A	-2	-/D	.	.	.	-D	1	-/A	-A	-2	-/D	.	.	.	.	.	.
$\chi_{96}^{(42)}$	.	.	.	-/D	1	-A	-/A	-2	-D	.	.	.	-/D	1	-A	-/A	-2	-D	.	.	.	.	.	.
$\chi_{96}^{(43)}$	.	.	.	-D	1	-/A	-A	-2	-/D	.	.	.	-D	1	-/A	-A	-2	-/D	.	.	.	.	.	.
$\chi_{96}^{(44)}$	.	.	.	-/D	1	-A	-/A	-2	-D	.	.	.	-/D	1	-A	-/A	-2	-D	.	.	.	.	.	.
$\chi_{96}^{(45)}$	.	.	.	-2	1	1	1	-2	-2	.	.	.	2	-1	-1	-1	2	2	.	.	.	.	.	.
$\chi_{96}^{(46)}$	.	.	.	-2	1	1	1	-2	-2	.	.	.	2	-1	-1	-1	2	2	.	.	.	.	.	.
$\chi_{96}^{(47)}$	.	.	.	-D	1	-/A	-A	-2	-/D	.	.	.	D	-1	/A	A	2	/D	.	.	.	.	.	.
$\chi_{96}^{(48)}$	.	.	.	-/D	1	-A	-/A	-2	-D	.	.	.	/D	-1	A	/A	2	D	.	.	.	.	.	.
$\chi_{96}^{(49)}$	.	.	.	-D	1	-/A	-A	-2	-/D	.	.	.	D	-1	/A	A	2	/D	.	.	.	.	.	.
$\chi_{96}^{(50)}$	.	.	.	-/D	1	-A	-/A	-2	-D	.	.	.	/D	-1	A	/A	2	D	.	.	.	.	.	.
$\chi_{96}^{(51)}$	.	.	.	D	-1	/A	A	2	/D	.	.	.	D	-1	/A	A	2	/D	.	.	.	.	.	.
$\chi_{96}^{(52)}$	.	.	.	/D	-1	A	/A	2	D	.	.	.	/D	-1	A	/A	2	D	.	.	.	.	.	.
$\chi_{96}^{(53)}$	.	.	.	D	-1	/A	A	2	/D	.	.	.	D	-1	/A	A	2	/D	.	.	.	.	.	.
$\chi_{96}^{(54)}$	.	.	.	/D	-1	A	/A	2	D	.	.	.	/D	-1	A	/A	2	D	.	.	.	.	.	.
$\chi_{96}^{(55)}$	.	.	.	D	-1	/A	A	2	/D	.	.	.	-D	1	-/A	-A	-2	-/D	.	.	.	.	.	.
$\chi_{96}^{(56)}$	.	.	.	/D	-1	A	/A	2	D	.	.	.	-/D	1	-A	-/A	-2	-D	.	.	.	.	.	.
$\chi_{96}^{(57)}$	.	.	.	D	-1	/A	A	2	/D	.	.	.	-D	1	-/A	-A	-2	-/D	.	.	.	.	.	.
$\chi_{96}^{(58)}$	.	.	.	/D	-1	A	/A	2	D	.	.	.	-/D	1	-A	-/A	-2	-D	.	.	.	.	.	.
$\chi_{96}^{(59)}$	.	.	.	D	2	/D	D	2	/D	-D	-/D	-2	.	.	.	.	.	.	D	/D	2	.	.	.
$\chi_{96}^{(60)}$	.	.	.	/D	2	D	/D	2	D	-/D	-D	-2	.	.	.	.	.	.	/D	D	2	.	.	.

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$\chi_{96}^{(61)}$	.	.	.	D	2	/D	D	2	/D	D	/D	2	.	.	.	.	.	.	-D	-/D	-2	.	.	.	
$\chi_{96}^{(62)}$	.	.	.	/D	2	D	/D	2	D	/D	D	2	.	.	.	.	.	.	-/D	-D	-2	.	.	.	
$\chi_{96}^{(63)}$	-D	-/D	-2	-D	-2	-/D	-D	-2	-/D	.	.	.	.	.	.	.	.	.	.	.	.	D	/D	2	
$\chi_{96}^{(64)}$	-/D	-D	-2	-/D	-2	-D	-/D	-2	-D	.	.	.	.	.	.	.	.	.	.	.	.	/D	D	2	
$\chi_{96}^{(65)}$	D	/D	2	-D	-2	-/D	-D	-2	-/D	.	.	.	.	.	.	.	.	.	.	.	.	-D	-/D	-2	
$\chi_{96}^{(66)}$	/D	D	2	-/D	-2	-D	-/D	-2	-D	.	.	.	.	.	.	.	.	.	.	.	.	-/D	-D	-2	
$\chi_{96}^{(67)}$	.	.	.	4	-2	-2	-2	4	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
$\chi_{96}^{(68)}$	.	.	.	-4	2	2	2	-4	-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
$\chi_{96}^{(69)}$	.	.	.	E	-2	-/D	-D	4	/E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
$\chi_{96}^{(70)}$	.	.	.	/E	-2	-D	-/D	4	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
$\chi_{96}^{(71)}$	.	.	.	-E	2	/D	D	-4	-/E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
$\chi_{96}^{(72)}$	.	.	.	-/E	2	D	/D	-4	-E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

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$\chi_{96}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{96}^{(2)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	
$\chi_{96}^{(3)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	
$\chi_{96}^{(4)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	
$\chi_{96}^{(5)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	
$\chi_{96}^{(6)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{96}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	
$\chi_{96}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	
$\chi_{96}^{(9)}$	-A	1	-/A	-A	1	-/A	-A	-/A	1	1	-/A	-A	A	/A	-1	-1	/A	A	-A	-/A	1	/A	-/A	
$\chi_{96}^{(10)}$	-/A	1	-A	-/A	1	-A	-/A	-A	1	1	-A	-/A	/A	A	-1	-1	A	/A	-/A	-A	1	A	-A	
$\chi_{96}^{(11)}$	-A	1	-/A	-A	1	-/A	-A	-/A	1	1	-/A	-A	A	/A	-1	-1	/A	A	-A	-/A	1	-/A	-/A	
$\chi_{96}^{(12)}$	-/A	1	-A	-/A	1	-A	-/A	-A	1	1	-A	-/A	/A	A	-1	-1	A	/A	-/A	-A	1	-A	-A	
$\chi_{96}^{(13)}$	-/A	1	-A	-/A	1	-A	-/A	-A	1	1	-A	-/A	/A	A	-1	-1	A	/A	-/A	-A	1	-A	-A	
$\chi_{96}^{(14)}$	-A	1	-/A	-A	1	-/A	-A	-/A	1	1	-/A	-A	A	/A	-1	-1	/A	A	-A	-/A	1	-/A	-/A	
$\chi_{96}^{(15)}$	-/A	1	-A	-/A	1	-A	-/A	-A	1	1	-A	-/A	/A	A	-1	-1	A	/A	-/A	-A	1	A	-A	
$\chi_{96}^{(16)}$	-A	1	-/A	-A	1	-/A	-A	-/A	1	1	-/A	-A	A	/A	-1	-1	/A	A	-A	-/A	1	/A	-/A	
$\chi_{96}^{(17)}$	-A	1	-/A	-A	1	-/A	-A	-/A	1	1	-/A	-A	-A	-/A	1	1	-/A	-A	-A	-/A	1	-/A	-/A	
$\chi_{96}^{(18)}$	-/A	1	-A	-/A	1	-A	-/A	-A	1	1	-A	-/A	-/A	-A	1	1	-A	-/A	-/A	-A	1	-A	-A	
$\chi_{96}^{(19)}$	-A	1	-/A	-A	1	-/A	-A	-/A	1	1	-/A	-A	-A	-/A	1	1	-/A	-A	-A	-/A	1	/A	-/A	
$\chi_{96}^{(20)}$	-/A	1	-A	-/A	1	-A	-/A	-A	1	1	-A	-/A	-/A	-A	1	1	-A	-/A	-/A	-A	1	A	-A	
$\chi_{96}^{(21)}$	-/A	1	-A	-/A	1	-A	-/A	-A	1	1	-A	-/A	-/A	-A	1	1	-A	-/A	-/A	-A	1	A	-A	
$\chi_{96}^{(22)}$	-A	1	-/A	-A	1	-/A	-A	-/A	1	1	-/A	-A	-A	-/A	1	1	-/A	-A	-A	-/A	1	/A	-/A	
$\chi_{96}^{(23)}$	-/A	1	-A	-/A	1	-A	-/A	-A	1	1	-A	-/A	-/A	-A	1	1	-A	-/A	-/A	-A	1	-A	-A	
$\chi_{96}^{(24)}$	-A	1	-/A	-A	1	-/A	-A	-/A	1	1	-/A	-A	-A	-/A	1	1	-/A	-A	-A	-/A	1	-/A	-/A	
$\chi_{96}^{(25)}$	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	.	2	
$\chi_{96}^{(26)}$	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	2	
$\chi_{96}^{(27)}$	2	-1	-1	-1	2	2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	.	-1	
$\chi_{96}^{(28)}$	2	-1	-1	-1	2	2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	.	-1	
$\chi_{96}^{(29)}$	2	-1	-1	-1	2	2	-1	2	-1	2	-1	2	1	-2	1	-2	1	-2	-1	2	-1	.	-1	
$\chi_{96}^{(30)}$	2	-1	-1	-1	2	2	-1	2	-1	2	-1	2	1	-2	1	-2	1	-2	-1	2	-1	.	-1	

	50												60										70
$\chi_{96}^{(31)}$	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	2	2	2	.	2
$\chi_{96}^{(32)}$	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	2	2	2	.	2
$\chi_{96}^{(33)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	2	2	2	.	2
$\chi_{96}^{(34)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	2	2	2	.	2
$\chi_{96}^{(35)}$	-D	-2	-/D	-D	-2	-/D	D	/D	2	2	/D	D	D	/D	2	2	/D	D	D	/D	2	.	/D
$\chi_{96}^{(36)}$	-/D	-2	-D	-/D	-2	-D	/D	D	2	2	D	/D	/D	D	2	2	D	/D	/D	D	2	.	D
$\chi_{96}^{(37)}$	-D	-2	-/D	-D	-2	-/D	D	/D	2	2	/D	D	-D	-/D	-2	-2	-/D	-D	D	/D	2	.	/D
$\chi_{96}^{(38)}$	-/D	-2	-D	-/D	-2	-D	/D	D	2	2	D	/D	-/D	-D	-2	-2	-D	-/D	/D	D	2	.	D
$\chi_{96}^{(39)}$	-2	1	1	1	-2	-2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	.	-1
$\chi_{96}^{(40)}$	-2	1	1	1	-2	-2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	2	-1	.	-1
$\chi_{96}^{(41)}$	-D	1	-/A	-A	-2	-/D	A	/D	-1	2	/A	D	A	/D	-1	2	/A	D	A	/D	-1	.	/A
$\chi_{96}^{(42)}$	-/D	1	-A	-/A	-2	-D	/A	D	-1	2	A	/D	/A	D	-1	2	A	/D	/A	D	-1	.	A
$\chi_{96}^{(43)}$	-D	1	-/A	-A	-2	-/D	A	/D	-1	2	/A	D	A	/D	-1	2	/A	D	A	/D	-1	.	/A
$\chi_{96}^{(44)}$	-/D	1	-A	-/A	-2	-D	/A	D	-1	2	A	/D	/A	D	-1	2	A	/D	/A	D	-1	.	A
$\chi_{96}^{(45)}$	-2	1	1	1	-2	-2	-1	2	-1	2	-1	2	1	-2	1	-2	1	-2	-1	2	-1	.	-1
$\chi_{96}^{(46)}$	-2	1	1	1	-2	-2	-1	2	-1	2	-1	2	1	-2	1	-2	1	-2	-1	2	-1	.	-1
$\chi_{96}^{(47)}$	-D	1	-/A	-A	-2	-/D	A	/D	-1	2	/A	D	-A	-/D	1	-2	-/A	-D	A	/D	-1	.	/A
$\chi_{96}^{(48)}$	-/D	1	-A	-/A	-2	-D	/A	D	-1	2	A	/D	-/A	-D	1	-2	-A	-/D	/A	D	-1	.	A
$\chi_{96}^{(49)}$	-D	1	-/A	-A	-2	-/D	A	/D	-1	2	/A	D	-A	-/D	1	-2	-/A	-D	A	/D	-1	.	/A
$\chi_{96}^{(50)}$	-/D	1	-A	-/A	-2	-D	/A	D	-1	2	A	/D	-/A	-D	1	-2	-A	-/D	/A	D	-1	.	A
$\chi_{96}^{(51)}$	D	-1	/A	A	2	/D	A	/D	-1	2	/A	D	A	/D	-1	2	/A	D	A	/D	-1	.	/A
$\chi_{96}^{(52)}$	/D	-1	A	/A	2	D	/A	D	-1	2	A	/D	/A	D	-1	2	A	/D	/A	D	-1	.	A
$\chi_{96}^{(53)}$	D	-1	/A	A	2	/D	A	/D	-1	2	/A	D	A	/D	-1	2	/A	D	A	/D	-1	.	/A
$\chi_{96}^{(54)}$	/D	-1	A	/A	2	D	/A	D	-1	2	A	/D	/A	D	-1	2	A	/D	/A	D	-1	.	A
$\chi_{96}^{(55)}$	D	-1	/A	A	2	/D	A	/D	-1	2	/A	D	-A	-/D	1	-2	-/A	-D	A	/D	-1	.	/A
$\chi_{96}^{(56)}$	/D	-1	A	/A	2	D	/A	D	-1	2	A	/D	-/A	-D	1	-2	-A	-/D	/A	D	-1	.	A
$\chi_{96}^{(57)}$	D	-1	/A	A	2	/D	A	/D	-1	2	/A	D	-A	-/D	1	-2	-/A	-D	A	/D	-1	.	/A
$\chi_{96}^{(58)}$	/D	-1	A	/A	2	D	/A	D	-1	2	A	/D	-/A	-D	1	-2	-A	-/D	/A	D	-1	.	A
$\chi_{96}^{(59)}$	-D	-2	-/D	-D	-2	-/D	-D	-/D	-2	-2	-/D	-D	.	.	.	.	.	.	D	/D	2	.	/D
$\chi_{96}^{(60)}$	-/D	-2	-D	-/D	-2	-D	-/D	-D	-2	-2	-D	-/D	.	.	.	.	.	.	/D	D	2	.	D
$\chi_{96}^{(61)}$	-D	-2	-/D	-D	-2	-/D	-D	-/D	-2	-2	-/D	-D	.	.	.	.	.	.	D	/D	2	.	/D
$\chi_{96}^{(62)}$	-/D	-2	-D	-/D	-2	-D	-/D	-D	-2	-2	-D	-/D	.	.	.	.	.	.	/D	D	2	.	D
$\chi_{96}^{(63)}$	D	2	/D	D	2	/D	-D	-/D	-2	-2	-/D	-D	.	.	.	.	.	.	D	/D	2	.	/D
$\chi_{96}^{(64)}$	/D	2	D	/D	2	D	-/D	-D	-2	-2	-D	-/D	.	.	.	.	.	.	/D	D	2	.	D
$\chi_{96}^{(65)}$	D	2	/D	D	2	/D	-D	-/D	-2	-2	-/D	-D	.	.	.	.	.	.	D	/D	2	.	/D
$\chi_{96}^{(66)}$	/D	2	D	/D	2	D	-/D	-D	-2	-2	-D	-/D	.	.	.	.	.	.	/D	D	2	.	D
$\chi_{96}^{(67)}$	-4	2	2	2	-4	-4	2	-4	2	-4	2	-4	.	.	.	.	.	.	-2	4	-2	.	-2
$\chi_{96}^{(68)}$	4	-2	-2	-2	4	4	2	-4	2	-4	2	-4	.	.	.	.	.	.	-2	4	-2	.	-2
$\chi_{96}^{(69)}$	-E	2	/D	D	-4	-/E	D	-/E	2	-4	/D	-E	.	.	.	.	.	.	-D	/E	-2	.	-/D
$\chi_{96}^{(70)}$	-/E	2	D	/D	-4	-E	/D	-E	2	-4	D	-/E	.	.	.	.	.	.	-/D	E	-2	.	-D
$\chi_{96}^{(71)}$	E	-2	-/D	-D	4	/E	D	-/E	2	-4	/D	-E	.	.	.	.	.	.	-D	/E	-2	.	-/D
$\chi_{96}^{(72)}$	/E	-2	-D	-/D	4	E	/D	-E	2	-4	D	-/E	.	.	.	.	.	.	-/D	E	-2	.	-D

$\chi_{96}^{(1)}$	1
$\chi_{96}^{(2)}$	1
$\chi_{96}^{(3)}$	1
$\chi_{96}^{(4)}$	1
$\chi_{96}^{(5)}$	1
$\chi_{96}^{(6)}$	1
$\chi_{96}^{(7)}$	1
$\chi_{96}^{(8)}$	1
$\chi_{96}^{(9)}$	-A
$\chi_{96}^{(10)}$	-/A
$\chi_{96}^{(11)}$	-A
$\chi_{96}^{(12)}$	-/A
$\chi_{96}^{(13)}$	-/A
$\chi_{96}^{(14)}$	-A
$\chi_{96}^{(15)}$	-/A
$\chi_{96}^{(16)}$	-A
$\chi_{96}^{(17)}$	-A
$\chi_{96}^{(18)}$	-/A
$\chi_{96}^{(19)}$	-A
$\chi_{96}^{(20)}$	-/A
$\chi_{96}^{(21)}$	-/A
$\chi_{96}^{(22)}$	-A
$\chi_{96}^{(23)}$	-/A
$\chi_{96}^{(24)}$	-A
$\chi_{96}^{(25)}$	2
$\chi_{96}^{(26)}$	2
$\chi_{96}^{(27)}$	2
$\chi_{96}^{(28)}$	2
$\chi_{96}^{(29)}$	2
$\chi_{96}^{(30)}$	2
$\chi_{96}^{(31)}$	2
$\chi_{96}^{(32)}$	2
$\chi_{96}^{(33)}$	2
$\chi_{96}^{(34)}$	2
$\chi_{96}^{(35)}$	D
$\chi_{96}^{(36)}$	/D
$\chi_{96}^{(37)}$	D
$\chi_{96}^{(38)}$	/D
$\chi_{96}^{(39)}$	2
$\chi_{96}^{(40)}$	2
$\chi_{96}^{(41)}$	D
$\chi_{96}^{(42)}$	/D
$\chi_{96}^{(43)}$	D
$\chi_{96}^{(44)}$	/D
$\chi_{96}^{(45)}$	2

$\chi_{96}^{(46)}$	2
$\chi_{96}^{(47)}$	D
$\chi_{96}^{(48)}$	/D
$\chi_{96}^{(49)}$	D
$\chi_{96}^{(50)}$	/D
$\chi_{96}^{(51)}$	D
$\chi_{96}^{(52)}$	/D
$\chi_{96}^{(53)}$	D
$\chi_{96}^{(54)}$	/D
$\chi_{96}^{(55)}$	D
$\chi_{96}^{(56)}$	/D
$\chi_{96}^{(57)}$	D
$\chi_{96}^{(58)}$	/D
$\chi_{96}^{(59)}$	D
$\chi_{96}^{(60)}$	/D
$\chi_{96}^{(61)}$	D
$\chi_{96}^{(62)}$	/D
$\chi_{96}^{(63)}$	D
$\chi_{96}^{(64)}$	/D
$\chi_{96}^{(65)}$	D
$\chi_{96}^{(66)}$	/D
$\chi_{96}^{(67)}$	4
$\chi_{96}^{(68)}$	4
$\chi_{96}^{(69)}$	E
$\chi_{96}^{(70)}$	/E
$\chi_{96}^{(71)}$	E
$\chi_{96}^{(72)}$	/E

where A = -E(3)^2 = (1+ER(-3))/2 = 1+b3, B = -E(3)+E(3)^2 = -ER(-3) = -i3, C = E(3)+2*E(3)^2 = (-3-ER(-3))/2 = -2-b3, D = 2*E(3)^2 = -1-ER(-3) = -1-i3, E = 4*E(3)^2 = -2-2*ER(-3) = -2-2i3.

The generators of $G^{s_{97}}$ are:

$$\begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 3 & 2 & -6 & 2 & 1 & 3 & -1 \\ 0 & 2 & 2 & -5 & 2 & 0 & 3 & -1 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & -1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & -2 & 3 & -5 & 2 & 0 & 1 \\ 0 & 3 & -2 & 2 & -4 & 2 & 0 & 1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 0 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 & -1 & 1 & 0 \\ -1 & 1 & 0 & 1 & 0 & -1 & 1 & 0 \\ -1 & 1 & 0 & 0 & 1 & -1 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{97}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 1 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 1 & -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -2 & 1 & -3 & 6 & -3 & -1 & 1 \\ 0 & -2 & 1 & -2 & 5 & -3 & -1 & 1 \\ 0 & -2 & 1 & -1 & 3 & -2 & -1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -3 & 0 & -2 & 6 & -3 & 0 & 0 \\ 0 & -3 & 0 & -1 & 5 & -3 & 0 & 0 \\ 0 & -3 & 0 & 0 & 3 & -2 & 0 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -2 & 1 & -3 & 6 & -3 & 0 & -1 \\ 0 & -2 & 1 & -2 & 5 & -3 & 0 & -1 \\ 0 & -2 & 1 & -1 & 3 & -2 & 0 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 3 & 2 & -6 & 2 & 1 & 3 & -1 \\ 0 & 2 & 2 & -5 & 2 & 0 & 3 & -1 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & -1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 3 & 2 & -6 & 2 & 1 & 2 & 1 \\ 0 & 2 & 2 & -5 & 2 & 0 & 2 & 1 \\ 0 & 2 & 1 & -4 & 2 & 0 & 1 & 1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 0 & 1 \\ 0 & 1 & 1 & -2 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 2 & 1 & -5 & 2 & 1 & 3 & 0 \\ 0 & 1 & 1 & -4 & 2 & 0 & 3 & 0 \\ 0 & 1 & 0 & -3 & 2 & 0 & 2 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -4 & 1 & 4 & -1 & -5 & 3 & 0 \\ 0 & -3 & 1 & 3 & -1 & -4 & 3 & 0 \\ 0 & -2 & 0 & 3 & -1 & -3 & 2 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -3 & 2 & 3 & -1 & -5 & 3 & -1 \\ 0 & -2 & 2 & 2 & -1 & -4 & 3 & -1 \\ 0 & -1 & 1 & 2 & -1 & -3 & 2 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -3 & 2 & 3 & -1 & -5 & 2 & 1 \\ 0 & -2 & 2 & 2 & -1 & -4 & 2 & 1 \\ 0 & -1 & 1 & 2 & -1 & -3 & 1 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 & -1 & -1 & 2 & 0 \\ 1 & 1 & 0 & 1 & -2 & -1 & 3 & 0 \\ 1 & 1 & 0 & 0 & -1 & -1 & 3 & 0 \\ 0 & 1 & 0 & 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 & -1 & -1 & 2 & 0 \\ 1 & 2 & 1 & 0 & -2 & -1 & 3 & -1 \\ 1 & 2 & 1 & -1 & -1 & -1 & 3 & -1 \\ 0 & 2 & 1 & -1 & -1 & 0 & 2 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 & -1 & -1 & 2 & 0 \\ 1 & 2 & 1 & 0 & -2 & -1 & 2 & 1 \\ 1 & 2 & 1 & -1 & -1 & -1 & 2 & 1 \\ 0 & 2 & 1 & -1 & -1 & 0 & 1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -2 & 1 & 0 \\ 1 & -1 & 0 & -1 & 2 & -2 & 1 & 0 \\ 0 & -1 & 1 & -2 & 3 & -3 & 2 & 0 \\ 1 & -1 & 1 & -3 & 4 & -4 & 2 & 1 \\ 1 & -1 & 1 & -2 & 3 & -4 & 2 & 1 \\ 0 & -1 & 1 & -1 & 2 & -3 & 1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -2 & 1 & 0 \\ 1 & -1 & 0 & -1 & 2 & -2 & 1 & 0 \\ 0 & -1 & 1 & -2 & 3 & -3 & 2 & 0 \\ 1 & -2 & 0 & -2 & 4 & -4 & 3 & 0 \\ 1 & -2 & 0 & -1 & 3 & -4 & 3 & 0 \\ 0 & -2 & 0 & 0 & 2 & -3 & 2 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -2 & 1 & 0 \\ 1 & -1 & 0 & -1 & 2 & -2 & 1 & 0 \\ 0 & -1 & 1 & -2 & 3 & -3 & 2 & 0 \\ 1 & -1 & 1 & -3 & 4 & -4 & 3 & -1 \\ 1 & -1 & 1 & -2 & 3 & -4 & 3 & -1 \\ 0 & -1 & 1 & -1 & 2 & -3 & 2 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 1 & 0 & 0 \\ -1 & 1 & 1 & -3 & 2 & 1 & 0 & 0 \\ 0 & 1 & 1 & -4 & 3 & 1 & 0 & 0 \\ -1 & 2 & 2 & -6 & 4 & 2 & 0 & -1 \\ -1 & 1 & 2 & -5 & 4 & 1 & 0 & -1 \\ 0 & 1 & 1 & -4 & 3 & 1 & 0 & -1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 1 & 0 & 0 \\ -1 & 1 & 1 & -3 & 2 & 1 & 0 & 0 \\ 0 & 1 & 1 & -4 & 3 & 1 & 0 & 0 \\ -1 & 2 & 2 & -6 & 4 & 2 & -1 & 1 \\ -1 & 1 & 2 & -5 & 4 & 1 & -1 & 1 \\ 0 & 1 & 1 & -4 & 3 & 1 & -1 & 1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 0 & 1 \\ 0 & 1 & 1 & -2 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 1 & 0 & 0 \\ -1 & 1 & 1 & -3 & 2 & 1 & 0 & 0 \\ 0 & 1 & 1 & -4 & 3 & 1 & 0 & 0 \\ -1 & 1 & 1 & -5 & 4 & 2 & 0 & 0 \\ -1 & 0 & 1 & -4 & 4 & 1 & 0 & 0 \\ 0 & 0 & 0 & -3 & 3 & 1 & 0 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 1 & 1 & 0 & -1 & 0 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ 0 & -3 & 1 & 2 & 1 & -3 & 0 & 0 \\ -1 & -5 & 1 & 4 & 1 & -4 & 0 & 0 \\ -1 & -4 & 1 & 3 & 1 & -3 & 0 & 0 \\ 0 & -3 & 0 & 3 & 0 & -2 & 0 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 1 & 1 & 0 & -1 & 0 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ 0 & -3 & 1 & 2 & 1 & -3 & 0 & 0 \\ -1 & -4 & 2 & 3 & 1 & -4 & 0 & -1 \\ -1 & -3 & 2 & 2 & 1 & -3 & 0 & -1 \\ 0 & -2 & 1 & 2 & 0 & -2 & 0 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 1 & 1 & 0 & -1 & 0 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ 0 & -3 & 1 & 2 & 1 & -3 & 0 & 0 \\ -1 & -4 & 2 & 3 & 1 & -4 & -1 & 1 \\ -1 & -3 & 2 & 2 & 1 & -3 & -1 & 1 \\ 0 & -2 & 1 & 2 & 0 & -2 & -1 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 1 & 1 & -1 & 1 & 0 & -1 & 1 & 0 \\ 1 & 1 & -1 & 0 & 1 & -1 & 1 & 0 \\ 1 & 1 & -1 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 1 & 2 & 0 & 0 & 0 & -1 & 1 & -1 \\ 1 & 2 & 0 & -1 & 1 & -1 & 1 & -1 \\ 1 & 2 & 0 & -1 & 0 & 0 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 1 & 2 & 0 & 0 & 0 & -1 & 0 & 1 \\ 1 & 2 & 0 & -1 & 1 & -1 & 0 & 1 \\ 1 & 2 & 0 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 1 & -1 & 0 & -2 & 4 & -3 & 1 & 0 \\ 1 & -1 & 0 & -3 & 6 & -4 & 0 & 1 \\ 1 & -1 & 0 & -2 & 5 & -4 & 0 & 1 \\ 1 & -1 & 0 & -1 & 3 & -3 & 0 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 1 & -1 & 0 & -2 & 4 & -3 & 1 & 0 \\ 1 & -2 & -1 & -2 & 6 & -4 & 1 & 0 \\ 1 & -2 & -1 & -1 & 5 & -4 & 1 & 0 \\ 1 & -2 & -1 & 0 & 3 & -3 & 1 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 1 & -1 & 0 & -2 & 4 & -3 & 1 & 0 \\ 1 & -1 & 0 & -3 & 6 & -4 & 1 & -1 \\ 1 & -1 & 0 & -2 & 5 & -4 & 1 & -1 \\ 1 & -1 & 0 & -1 & 3 & -3 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ -1 & 1 & 2 & -4 & 2 & 1 & 1 & 0 \\ -1 & 2 & 3 & -6 & 2 & 2 & 2 & -1 \\ -1 & 1 & 3 & -5 & 2 & 1 & 2 & -1 \\ -1 & 1 & 2 & -4 & 2 & 1 & 1 & -1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ -1 & 1 & 2 & -4 & 2 & 1 & 1 & 0 \\ -1 & 2 & 3 & -6 & 2 & 2 & 1 & 1 \\ -1 & 1 & 3 & -5 & 2 & 1 & 1 & 1 \\ -1 & 1 & 2 & -4 & 2 & 1 & 0 & 1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 0 & 1 \\ 0 & 1 & 1 & -2 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ -1 & 1 & 2 & -4 & 2 & 1 & 1 & 0 \\ -1 & 2 & 3 & -5 & 2 & 2 & 2 & 0 \\ -1 & 0 & 2 & -4 & 2 & 1 & 2 & 0 \\ -1 & 0 & 1 & -3 & 2 & 1 & 1 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 1 & 1 & 0 & -1 & 0 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ -1 & -3 & 2 & 2 & 0 & -3 & 1 & 0 \\ -1 & -5 & 2 & 4 & -1 & -4 & 2 & 0 \\ -1 & -4 & 2 & 3 & -1 & -3 & 2 & 0 \\ -1 & -3 & 1 & 3 & -1 & -2 & 1 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 1 & 1 & 0 & -1 & 0 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ -1 & -3 & 2 & 2 & 0 & -3 & 1 & 0 \\ -1 & -4 & 3 & 3 & -1 & -4 & 2 & -1 \\ -1 & -3 & 3 & 2 & -1 & -3 & 2 & -1 \\ -1 & -2 & 2 & 2 & -1 & -2 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 1 & 1 & 0 & -1 & 0 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ -1 & -3 & 2 & 2 & 0 & -3 & 1 & 0 \\ -1 & -4 & 3 & 3 & -1 & -4 & 1 & 1 \\ -1 & -3 & 3 & 2 & -1 & -3 & 1 & 1 \\ -1 & -2 & 2 & 2 & -1 & -2 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 1 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 1 & -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -2 & 1 & -3 & 6 & -3 & -1 & 1 \\ 0 & -2 & 1 & -2 & 5 & -3 & -1 & 1 \\ 0 & -2 & 1 & -1 & 3 & -2 & -1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -3 & 0 & -2 & 6 & -3 & 0 & 0 \\ 0 & -3 & 0 & -1 & 5 & -3 & 0 & 0 \\ 0 & -3 & 0 & 0 & 3 & -2 & 0 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -2 & 1 & -3 & 6 & -3 & 0 & -1 \\ 0 & -2 & 1 & -2 & 5 & -3 & 0 & -1 \\ 0 & -2 & 1 & -1 & 3 & -2 & 0 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & -2 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 3 & 2 & -6 & 2 & 1 & 3 & -1 \\ 0 & 2 & 2 & -5 & 2 & 0 & 3 & -1 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & -1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -2 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 3 & 2 & -6 & 2 & 1 & 2 & 1 \\ 0 & 2 & 2 & -5 & 2 & 0 & 2 & 1 \\ 0 & 2 & 1 & -4 & 2 & 0 & 1 & 1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 0 & 1 \\ 0 & 1 & 1 & -2 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -2 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 2 & 1 & -5 & 2 & 1 & 3 & 0 \\ 0 & 1 & 1 & -4 & 2 & 0 & 3 & 0 \\ 0 & 1 & 0 & -3 & 2 & 0 & 2 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -4 & 1 & 4 & -1 & -5 & 3 & 0 \\ 0 & -3 & 1 & 3 & -1 & -4 & 3 & 0 \\ 0 & -2 & 0 & 3 & -1 & -3 & 2 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -3 & 2 & 3 & -1 & -5 & 3 & -1 \\ 0 & -2 & 2 & 2 & -1 & -4 & 3 & -1 \\ 0 & -1 & 1 & 2 & -1 & -3 & 2 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -3 & 2 & 3 & -1 & -5 & 2 & 1 \\ 0 & -2 & 2 & 2 & -1 & -4 & 2 & 1 \\ 0 & -1 & 1 & 2 & -1 & -3 & 1 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 & -1 & -1 & 2 & 0 \\ 1 & 1 & 0 & 1 & -2 & -1 & 3 & 0 \\ 1 & 1 & 0 & 0 & -1 & -1 & 3 & 0 \\ 0 & 1 & 0 & 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 & -1 & -1 & 2 & 0 \\ 1 & 2 & 1 & 0 & -2 & -1 & 3 & -1 \\ 1 & 2 & 1 & -1 & -1 & -1 & 3 & -1 \\ 0 & 2 & 1 & -1 & -1 & 0 & 2 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 & -1 & -1 & 2 & 0 \\ 1 & 2 & 1 & 0 & -2 & -1 & 2 & 1 \\ 1 & 2 & 1 & -1 & -1 & -1 & 2 & 1 \\ 0 & 2 & 1 & -1 & -1 & 0 & 1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & -1 & 1 & -1 & 1 & 0 \\ 1 & -1 & 0 & -1 & 2 & -2 & 1 & 0 \\ 0 & -1 & 1 & -2 & 3 & -3 & 2 & 0 \\ 1 & -1 & 1 & -3 & 4 & -4 & 2 & 1 \\ 1 & -1 & 1 & -2 & 3 & -4 & 2 & 1 \\ 0 & -1 & 1 & -1 & 2 & -3 & 1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 1 & -1 & 1 & 0 \\ 1 & -1 & 0 & -1 & 2 & -2 & 1 & 0 \\ 0 & -1 & 1 & -2 & 3 & -3 & 2 & 0 \\ 1 & -2 & 0 & -2 & 4 & -4 & 3 & 0 \\ 1 & -2 & 0 & -1 & 3 & -4 & 3 & 0 \\ 0 & -2 & 0 & 0 & 2 & -3 & 2 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 1 & -1 & 1 & 0 \\ 1 & -1 & 0 & -1 & 2 & -2 & 1 & 0 \\ 0 & -1 & 1 & -2 & 3 & -3 & 2 & 0 \\ 1 & -1 & 1 & -3 & 4 & -4 & 3 & -1 \\ 1 & -1 & 1 & -2 & 3 & -4 & 3 & -1 \\ 0 & -1 & 1 & -1 & 2 & -3 & 2 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & -2 & 2 & 0 & 0 & 0 \\ -1 & 1 & 1 & -3 & 2 & 1 & 0 & 0 \\ 0 & 1 & 1 & -4 & 3 & 1 & 0 & 0 \\ -1 & 2 & 2 & -6 & 4 & 2 & 0 & -1 \\ -1 & 1 & 2 & -5 & 4 & 1 & 0 & -1 \\ 0 & 1 & 1 & -4 & 3 & 1 & 0 & -1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -2 & 2 & 0 & 0 & 0 \\ -1 & 1 & 1 & -3 & 2 & 1 & 0 & 0 \\ 0 & 1 & 1 & -4 & 3 & 1 & 0 & 0 \\ -1 & 2 & 2 & -6 & 4 & 2 & -1 & 1 \\ -1 & 1 & 2 & -5 & 4 & 1 & -1 & 1 \\ 0 & 1 & 1 & -4 & 3 & 1 & -1 & 1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 0 & 1 \\ 0 & 1 & 1 & -2 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -2 & 2 & 0 & 0 & 0 \\ -1 & 1 & 1 & -3 & 2 & 1 & 0 & 0 \\ 0 & 1 & 1 & -4 & 3 & 1 & 0 & 0 \\ -1 & 1 & 1 & -5 & 4 & 2 & 0 & 0 \\ -1 & 0 & 1 & -4 & 4 & 1 & 0 & 0 \\ 0 & 0 & 0 & -3 & 3 & 1 & 0 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 1 & 1 & -2 & 0 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ 0 & -3 & 1 & 2 & 1 & -3 & 0 & 0 \\ -1 & -5 & 1 & 4 & 1 & -4 & 0 & 0 \\ -1 & -4 & 1 & 3 & 1 & -3 & 0 & 0 \\ 0 & -3 & 0 & 3 & 0 & -2 & 0 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 1 & -2 & 0 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ 0 & -3 & 1 & 2 & 1 & -3 & 0 & 0 \\ -1 & -4 & 2 & 3 & 1 & -4 & 0 & -1 \\ -1 & -3 & 2 & 2 & 1 & -3 & 0 & -1 \\ 0 & -2 & 1 & 2 & 0 & -2 & 0 & -1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 1 & -2 & 0 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ 0 & -3 & 1 & 2 & 1 & -3 & 0 & 0 \\ -1 & -4 & 2 & 3 & 1 & -4 & -1 & 1 \\ -1 & -3 & 2 & 2 & 1 & -3 & -1 & 1 \\ 0 & -2 & 1 & 2 & 0 & -2 & -1 & 1 \\ 0 & -1 & 1 & 1 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & -2 & 3 & -5 & 2 & 0 & 1 \\ 0 & 3 & -2 & 2 & -4 & 2 & 0 & 1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 0 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & -2 & 3 & -5 & 2 & 1 & -1 \\ 0 & 3 & -2 & 2 & -4 & 2 & 1 & -1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 1 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 4 & -1 & 2 & -5 & 2 & 0 & 0 \\ 0 & 4 & -1 & 1 & -4 & 2 & 0 & 0 \\ 0 & 3 & 0 & 0 & -3 & 2 & 0 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -2 & 0 & 1 & -1 & 0 & 1 \\ 0 & 0 & -2 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -2 & 0 & 1 & -1 & 1 & -1 \\ 0 & 0 & -2 & 1 & 0 & -1 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 & 3 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 2 & -1 & -3 & 0 & 6 & -2 & -1 \\ 0 & 1 & -1 & -2 & 0 & 5 & -2 & -1 \\ 0 & 1 & -1 & -2 & 1 & 3 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 & 3 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 3 & 0 & -4 & 0 & 6 & -3 & 0 \\ 0 & 2 & 0 & -3 & 0 & 5 & -3 & 0 \\ 0 & 2 & 0 & -3 & 1 & 3 & -2 & 0 \\ 0 & 2 & 0 & -2 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 & 3 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 2 & -1 & -3 & 0 & 6 & -3 & 1 \\ 0 & 1 & -1 & -2 & 0 & 5 & -3 & 1 \\ 0 & 1 & -1 & -2 & 1 & 3 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 2 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -4 & -1 & 6 & -3 & 0 & -3 & 1 \\ 0 & -3 & -1 & 5 & -3 & 1 & -3 & 1 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 2 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -4 & -1 & 6 & -3 & 0 & -2 & -1 \\ 0 & -3 & -1 & 5 & -3 & 1 & -2 & -1 \\ 0 & -2 & -1 & 4 & -2 & 0 & -1 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 2 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -3 & 0 & 5 & -3 & 0 & -3 & 0 \\ 0 & -2 & 0 & 4 & -3 & 1 & -3 & 0 \\ 0 & -1 & 0 & 3 & -2 & 0 & -2 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 2 & -1 & 3 & -6 & 3 & 0 & 1 \\ 0 & 2 & -1 & 2 & -5 & 3 & 0 & 1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 0 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 2 & -1 & 3 & -6 & 3 & 1 & -1 \\ 0 & 2 & -1 & 2 & -5 & 3 & 1 & -1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 1 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & 0 & 2 & -6 & 3 & 0 & 0 \\ 0 & 3 & 0 & 1 & -5 & 3 & 0 & 0 \\ 0 & 3 & 0 & 0 & -3 & 2 & 0 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 1 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 3 & -2 & -3 & 1 & 5 & -2 & -1 \\ 0 & 2 & -2 & -2 & 1 & 4 & -2 & -1 \\ 0 & 1 & -1 & -2 & 1 & 3 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 1 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 4 & -1 & -4 & 1 & 5 & -3 & 0 \\ 0 & 3 & -1 & -3 & 1 & 4 & -3 & 0 \\ 0 & 2 & 0 & -3 & 1 & 3 & -2 & 0 \\ 0 & 2 & 0 & -2 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 1 & 2 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 3 & -2 & -3 & 1 & 5 & -3 & 1 \\ 0 & 2 & -2 & -2 & 1 & 4 & -3 & 1 \\ 0 & 1 & -1 & -2 & 1 & 3 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 3 & -1 & -1 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -3 & -2 & 6 & -2 & -1 & -3 & 1 \\ 0 & -2 & -2 & 5 & -2 & 0 & -3 & 1 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 3 & -1 & -1 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -3 & -2 & 6 & -2 & -1 & -2 & -1 \\ 0 & -2 & -2 & 5 & -2 & 0 & -2 & -1 \\ 0 & -2 & -1 & 4 & -2 & 0 & -1 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 3 & -1 & -1 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -2 & -1 & 5 & -2 & -1 & -3 & 0 \\ 0 & -1 & -1 & 4 & -2 & 0 & -3 & 0 \\ 0 & -1 & 0 & 3 & -2 & 0 & -2 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 1 & 0 & 3 & -5 & 4 & -2 & 1 \\ -2 & 1 & 0 & 2 & -4 & 4 & -2 & 1 \\ -1 & 1 & 0 & 1 & -3 & 3 & -1 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 1 & 0 & 3 & -5 & 4 & -1 & -1 \\ -2 & 1 & 0 & 2 & -4 & 4 & -1 & -1 \\ -1 & 1 & 0 & 1 & -3 & 3 & 0 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 2 & 1 & 2 & -5 & 4 & -2 & 0 \\ -2 & 2 & 1 & 1 & -4 & 4 & -2 & 0 \\ -1 & 2 & 1 & 0 & -3 & 3 & -1 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -1 & 1 & -1 & 1 & 1 & -2 & 0 \\ -2 & -1 & 1 & 0 & 0 & 1 & -2 & 0 \\ -1 & -1 & 1 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -2 & 0 & 0 & 1 & 1 & -2 & 1 \\ -2 & -2 & 0 & 1 & 0 & 1 & -2 & 1 \\ -1 & -2 & 0 & 1 & 0 & 0 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -2 & 0 & 0 & 1 & 1 & -1 & -1 \\ -2 & -2 & 0 & 1 & 0 & 1 & -1 & -1 \\ -1 & -2 & 0 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 1 & 2 & -1 & -2 & 0 & 2 & 0 & 0 \\ 1 & 3 & -2 & -2 & 0 & 3 & -1 & 0 \\ 2 & 4 & -3 & -3 & 0 & 4 & 0 & -1 \\ 2 & 3 & -3 & -2 & 0 & 3 & 0 & -1 \\ 1 & 2 & -2 & -2 & 1 & 2 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 1 & 2 & -1 & -2 & 0 & 2 & 0 & 0 \\ 1 & 3 & -2 & -2 & 0 & 3 & -1 & 0 \\ 2 & 5 & -2 & -4 & 0 & 4 & -1 & 0 \\ 2 & 4 & -2 & -3 & 0 & 3 & -1 & 0 \\ 1 & 3 & -1 & -3 & 1 & 2 & -1 & 0 \\ 0 & 2 & 0 & -2 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 1 & 2 & -1 & -2 & 0 & 2 & 0 & 0 \\ 1 & 3 & -2 & -2 & 0 & 3 & -1 & 0 \\ 2 & 4 & -3 & -3 & 0 & 4 & -1 & 1 \\ 2 & 3 & -3 & -2 & 0 & 3 & -1 & 1 \\ 1 & 2 & -2 & -2 & 1 & 2 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 1 & -1 & -1 & 3 & -2 & -1 & 0 & 0 \\ 1 & -1 & -2 & 4 & -2 & -1 & -1 & 0 \\ 2 & -2 & -3 & 6 & -3 & -2 & -1 & 1 \\ 2 & -1 & -3 & 5 & -3 & -1 & -1 & 1 \\ 1 & -1 & -2 & 4 & -2 & -1 & -1 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 1 & -1 & -1 & 3 & -2 & -1 & 0 & 0 \\ 1 & -1 & -2 & 4 & -2 & -1 & -1 & 0 \\ 2 & -2 & -3 & 6 & -3 & -2 & 0 & -1 \\ 2 & -1 & -3 & 5 & -3 & -1 & 0 & -1 \\ 1 & -1 & -2 & 4 & -2 & -1 & 0 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 1 & -1 & -1 & 3 & -2 & -1 & 0 & 0 \\ 1 & -1 & -2 & 4 & -2 & -1 & -1 & 0 \\ 2 & -1 & -2 & 5 & -3 & -2 & -1 & 0 \\ 2 & 0 & -2 & 4 & -3 & -1 & -1 & 0 \\ 1 & 0 & -1 & 3 & -2 & -1 & -1 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & -2 & 3 & -5 & 2 & 0 & 1 \\ 0 & 3 & -2 & 2 & -4 & 2 & 0 & 1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 0 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & -2 & 3 & -5 & 2 & 1 & -1 \\ 0 & 3 & -2 & 2 & -4 & 2 & 1 & -1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 1 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 4 & -1 & 2 & -5 & 2 & 0 & 0 \\ 0 & 4 & -1 & 1 & -4 & 2 & 0 & 0 \\ 0 & 3 & 0 & 0 & -3 & 2 & 0 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -2 & 0 & 1 & -1 & 0 & 1 \\ 0 & 0 & -2 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -2 & 0 & 1 & -1 & 1 & -1 \\ 0 & 0 & -2 & 1 & 0 & -1 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 & 3 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 2 & -1 & -3 & 0 & 6 & -2 & -1 \\ 0 & 1 & -1 & -2 & 0 & 5 & -2 & -1 \\ 0 & 1 & -1 & -2 & 1 & 3 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 & 3 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 3 & 0 & -4 & 0 & 6 & -3 & 0 \\ 0 & 2 & 0 & -3 & 0 & 5 & -3 & 0 \\ 0 & 2 & 0 & -3 & 1 & 3 & -2 & 0 \\ 0 & 2 & 0 & -2 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 & 3 & -1 & 0 \\ 0 & 2 & -1 & -2 & 0 & 4 & -2 & 0 \\ 0 & 2 & -1 & -3 & 0 & 6 & -3 & 1 \\ 0 & 1 & -1 & -2 & 0 & 5 & -3 & 1 \\ 0 & 1 & -1 & -2 & 1 & 3 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -4 & -1 & 6 & -3 & 0 & -3 & 1 \\ 0 & -3 & -1 & 5 & -3 & 1 & -3 & 1 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -4 & -1 & 6 & -3 & 0 & -2 & -1 \\ 0 & -3 & -1 & 5 & -3 & 1 & -2 & -1 \\ 0 & -2 & -1 & 4 & -2 & 0 & -1 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -3 & 0 & 5 & -3 & 0 & -3 & 0 \\ 0 & -2 & 0 & 4 & -3 & 1 & -3 & 0 \\ 0 & -1 & 0 & 3 & -2 & 0 & -2 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 2 & -1 & 0 \\ 1 & 1 & -1 & 1 & -2 & 2 & -1 & 0 \\ 0 & 1 & -1 & 2 & -3 & 3 & -2 & 0 \\ 1 & 1 & -2 & 3 & -4 & 4 & -3 & 1 \\ 1 & 1 & -2 & 2 & -3 & 4 & -3 & 1 \\ 0 & 1 & -1 & 1 & -2 & 3 & -2 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 2 & -1 & 0 \\ 1 & 1 & -1 & 1 & -2 & 2 & -1 & 0 \\ 0 & 1 & -1 & 2 & -3 & 3 & -2 & 0 \\ 1 & 1 & -2 & 3 & -4 & 4 & -2 & -1 \\ 1 & 1 & -2 & 2 & -3 & 4 & -2 & -1 \\ 0 & 1 & -1 & 1 & -2 & 3 & -1 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 2 & -1 & 0 \\ 1 & 1 & -1 & 1 & -2 & 2 & -1 & 0 \\ 0 & 1 & -1 & 2 & -3 & 3 & -2 & 0 \\ 1 & 2 & -1 & 2 & -4 & 4 & -3 & 0 \\ 1 & 2 & -1 & 1 & -3 & 4 & -3 & 0 \\ 0 & 2 & 0 & 0 & -2 & 3 & -2 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ 1 & -1 & -1 & 0 & 1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 0 & 1 & 1 & -2 & 0 \\ 1 & -1 & -1 & -1 & 2 & 1 & -3 & 0 \\ 1 & -1 & -1 & 0 & 1 & 1 & -3 & 0 \\ 0 & -1 & 0 & 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ 1 & -1 & -1 & 0 & 1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 0 & 1 & 1 & -2 & 0 \\ 1 & -2 & -2 & 0 & 2 & 1 & -3 & 1 \\ 1 & -2 & -2 & 1 & 1 & 1 & -3 & 1 \\ 0 & -2 & -1 & 1 & 1 & 0 & -2 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ 1 & -1 & -1 & 0 & 1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 0 & 1 & 1 & -2 & 0 \\ 1 & -2 & -2 & 0 & 2 & 1 & -2 & -1 \\ 1 & -2 & -2 & 1 & 1 & 1 & -2 & -1 \\ 0 & -2 & -1 & 1 & 1 & 0 & -1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 2 & -1 & -1 & 0 & 1 & 0 & 0 \\ -1 & 2 & 0 & -2 & 0 & 2 & 0 & 0 \\ 0 & 3 & -1 & -2 & -1 & 3 & 0 & 0 \\ -1 & 4 & -1 & -3 & -1 & 4 & 1 & -1 \\ -1 & 3 & -1 & -2 & -1 & 3 & 1 & -1 \\ 0 & 2 & -1 & -2 & 0 & 2 & 1 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 2 & -1 & -1 & 0 & 1 & 0 & 0 \\ -1 & 2 & 0 & -2 & 0 & 2 & 0 & 0 \\ 0 & 3 & -1 & -2 & -1 & 3 & 0 & 0 \\ -1 & 5 & 0 & -4 & -1 & 4 & 0 & 0 \\ -1 & 4 & 0 & -3 & -1 & 3 & 0 & 0 \\ 0 & 3 & 0 & -3 & 0 & 2 & 0 & 0 \\ 0 & 2 & 0 & -2 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & -1 & -1 & 0 & 1 & 0 & 0 \\ -1 & 2 & 0 & -2 & 0 & 2 & 0 & 0 \\ 0 & 3 & -1 & -2 & -1 & 3 & 0 & 0 \\ -1 & 4 & -1 & -3 & -1 & 4 & 0 & 1 \\ -1 & 3 & -1 & -2 & -1 & 3 & 0 & 1 \\ 0 & 2 & -1 & -2 & 0 & 2 & 0 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 2 & -1 & -1 & 0 & 0 \\ -1 & -1 & 0 & 3 & -2 & -1 & 0 & 0 \\ 0 & -1 & -1 & 4 & -3 & -1 & 0 & 0 \\ -1 & -2 & -1 & 6 & -4 & -2 & 0 & 1 \\ -1 & -1 & -1 & 5 & -4 & -1 & 0 & 1 \\ 0 & -1 & -1 & 4 & -3 & -1 & 0 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -1 & -1 & 0 & 0 \\ -1 & -1 & 0 & 3 & -2 & -1 & 0 & 0 \\ 0 & -1 & -1 & 4 & -3 & -1 & 0 & 0 \\ -1 & -2 & -1 & 6 & -4 & -2 & 1 & -1 \\ -1 & -1 & -1 & 5 & -4 & -1 & 1 & -1 \\ 0 & -1 & -1 & 4 & -3 & -1 & 1 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -1 & -1 & 0 & 0 \\ -1 & -1 & 0 & 3 & -2 & -1 & 0 & 0 \\ 0 & -1 & -1 & 4 & -3 & -1 & 0 & 0 \\ -1 & -1 & 0 & 5 & -4 & -2 & 0 & 0 \\ -1 & 0 & 0 & 4 & -4 & -1 & 0 & 0 \\ 0 & 0 & 0 & 3 & -3 & -1 & 0 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix}.$$

The character table of G^{s97}:

										10										20					
$\chi_{97}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(2)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(3)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(4)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(5)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(6)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(9)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1
$\chi_{97}^{(10)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1
$\chi_{97}^{(11)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1
$\chi_{97}^{(12)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1
$\chi_{97}^{(13)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1
$\chi_{97}^{(14)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1
$\chi_{97}^{(15)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1
$\chi_{97}^{(16)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1
$\chi_{97}^{(17)}$	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1
$\chi_{97}^{(18)}$	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1
$\chi_{97}^{(19)}$	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1
$\chi_{97}^{(20)}$	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1
$\chi_{97}^{(21)}$	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1
$\chi_{97}^{(22)}$	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1
$\chi_{97}^{(23)}$	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1
$\chi_{97}^{(24)}$	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1
$\chi_{97}^{(25)}$	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1
$\chi_{97}^{(26)}$	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1
$\chi_{97}^{(27)}$	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1
$\chi_{97}^{(28)}$	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1
$\chi_{97}^{(29)}$	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1
$\chi_{97}^{(30)}$	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1
$\chi_{97}^{(31)}$	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1
$\chi_{97}^{(32)}$	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1
$\chi_{97}^{(33)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1
$\chi_{97}^{(34)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1
$\chi_{97}^{(35)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1
$\chi_{97}^{(36)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1
$\chi_{97}^{(37)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1
$\chi_{97}^{(38)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1
$\chi_{97}^{(39)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1
$\chi_{97}^{(40)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1
$\chi_{97}^{(41)}$	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1
$\chi_{97}^{(42)}$	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1
$\chi_{97}^{(43)}$	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1
$\chi_{97}^{(44)}$	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1
$\chi_{97}^{(45)}$	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1

									10												20				
$\chi_{97}^{(46)}$	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1
$\chi_{97}^{(47)}$	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1
$\chi_{97}^{(48)}$	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1
$\chi_{97}^{(49)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-1
$\chi_{97}^{(50)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-1
$\chi_{97}^{(51)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-1
$\chi_{97}^{(52)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-1
$\chi_{97}^{(53)}$	2	B	/B	/B	2	B	B	/B	2	2	B	/B	2	B	/B	/B	2	B	B	/B	2	2	B	/B	-1
$\chi_{97}^{(54)}$	2	/B	B	B	2	/B	/B	B	2	2	/B	B	2	/B	B	B	2	/B	/B	B	2	2	/B	B	-1
$\chi_{97}^{(55)}$	2	B	/B	/B	2	B	-B	-/B	-2	-2	-B	-/B	2	B	/B	/B	2	B	-B	-/B	-2	-2	-B	-/B	-1
$\chi_{97}^{(56)}$	2	/B	B	B	2	/B	-/B	-B	-2	-2	-/B	-B	2	/B	B	B	2	/B	-/B	-B	-2	-2	-/B	-B	-1
$\chi_{97}^{(57)}$	2	2	2	-2	-2	-2	F	F	F	-F	-F	-F	2	2	2	-2	-2	-2	F	F	F	-F	-F	-F	-1
$\chi_{97}^{(58)}$	2	2	2	-2	-2	-2	-F	-F	-F	F	F	F	2	2	2	-2	-2	-2	-F	-F	-F	F	F	F	-1
$\chi_{97}^{(59)}$	2	B	/B	-/B	-2	-B	G	-/G	F	-F	-G	/G	2	B	/B	-/B	-2	-B	G	-/G	F	-F	-G	/G	-1
$\chi_{97}^{(60)}$	2	/B	B	-B	-2	-/B	-/G	G	F	-F	/G	-G	2	/B	B	-B	-2	-/B	-/G	G	F	-F	/G	-G	-1
$\chi_{97}^{(61)}$	2	B	/B	-/B	-2	-B	-G	/G	-F	F	G	-/G	2	B	/B	-/B	-2	-B	-G	/G	-F	F	G	-/G	-1
$\chi_{97}^{(62)}$	2	/B	B	-B	-2	-/B	/G	-G	-F	F	-/G	G	2	/B	B	-B	-2	-/B	/G	-G	-F	F	-/G	G	-1
$\chi_{97}^{(63)}$	2	2	2	-2	-2	-2	F	F	F	-F	-F	-F	2	2	2	-2	-2	-2	F	F	F	-F	-F	-F	-1
$\chi_{97}^{(64)}$	2	2	2	-2	-2	-2	-F	-F	-F	F	F	F	2	2	2	-2	-2	-2	-F	-F	-F	F	F	F	-1
$\chi_{97}^{(65)}$	2	B	/B	-/B	-2	-B	G	-/G	F	-F	-G	/G	2	B	/B	-/B	-2	-B	G	-/G	F	-F	-G	/G	-1
$\chi_{97}^{(66)}$	2	/B	B	-B	-2	-/B	-/G	G	F	-F	/G	-G	2	/B	B	-B	-2	-/B	-/G	G	F	-F	/G	-G	-1
$\chi_{97}^{(67)}$	2	B	/B	-/B	-2	-B	-G	/G	-F	F	G	-/G	2	B	/B	-/B	-2	-B	-G	/G	-F	F	G	-/G	-1
$\chi_{97}^{(68)}$	2	/B	B	-B	-2	-/B	/G	-G	-F	F	-/G	G	2	/B	B	-B	-2	-/B	/G	-G	-F	F	-/G	G	-1
$\chi_{97}^{(69)}$	2	B	/B	/B	2	B	B	/B	2	2	B	/B	2	B	/B	/B	2	B	B	/B	2	2	B	/B	-1
$\chi_{97}^{(70)}$	2	/B	B	B	2	/B	/B	B	2	2	/B	B	2	/B	B	B	2	/B	/B	B	2	2	/B	B	-1
$\chi_{97}^{(71)}$	2	B	/B	/B	2	B	-B	-/B	-2	-2	-B	-/B	2	B	/B	/B	2	B	-B	-/B	-2	-2	-B	-/B	-1
$\chi_{97}^{(72)}$	2	/B	B	B	2	/B	-/B	-B	-2	-2	-/B	-B	2	/B	B	B	2	/B	-/B	-B	-2	-2	-/B	-B	-1
$\chi_{97}^{(73)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.
$\chi_{97}^{(74)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.
$\chi_{97}^{(75)}$	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.
$\chi_{97}^{(76)}$	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.
$\chi_{97}^{(77)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.
$\chi_{97}^{(78)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.
$\chi_{97}^{(79)}$	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.
$\chi_{97}^{(80)}$	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.
$\chi_{97}^{(81)}$	3	C	/C	/C	3	C	C	/C	3	3	C	/C	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.
$\chi_{97}^{(82)}$	3	/C	C	C	3	/C	/C	C	3	3	/C	C	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.
$\chi_{97}^{(83)}$	3	C	/C	/C	3	C	C	/C	3	3	C	/C	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.
$\chi_{97}^{(84)}$	3	/C	C	C	3	/C	/C	C	3	3	/C	C	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.
$\chi_{97}^{(85)}$	3	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	.
$\chi_{97}^{(86)}$	3	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	.
$\chi_{97}^{(87)}$	3	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	.
$\chi_{97}^{(88)}$	3	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	.
$\chi_{97}^{(89)}$	3	3	3	-3	-3	-3	H	H	H	-H	-H	-H	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	.
$\chi_{97}^{(90)}$	3	3	3	-3	-3	-3	-H	-H	-H	H	H	H	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	.

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$\chi_{97}^{(91)}$	3	3	3	-3	-3	-3	H	H	H	-H	-H	-H	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	.
$\chi_{97}^{(92)}$	3	3	3	-3	-3	-3	-H	-H	-H	H	H	H	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	.
$\chi_{97}^{(93)}$	3	C	/C	-/C	-3	-C	I	-/I	H	-H	-I	/I	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.
$\chi_{97}^{(94)}$	3	/C	C	-C	-3	-/C	-/I	I	H	-H	/I	-I	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.
$\chi_{97}^{(95)}$	3	C	/C	-/C	-3	-C	-I	/I	-H	H	I	-/I	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.
$\chi_{97}^{(96)}$	3	/C	C	-C	-3	-/C	/I	-I	-H	H	-/I	I	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.
$\chi_{97}^{(97)}$	3	C	/C	-/C	-3	-C	I	-/I	H	-H	-I	/I	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.
$\chi_{97}^{(98)}$	3	/C	C	-C	-3	-/C	-/I	I	H	-H	/I	-I	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.
$\chi_{97}^{(99)}$	3	C	/C	-/C	-3	-C	-I	/I	-H	H	I	-/I	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.
$\chi_{97}^{(100)}$	3	/C	C	-C	-3	-/C	/I	-I	-H	H	-/I	I	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.
$\chi_{97}^{(101)}$	3	3	3	-3	-3	-3	H	H	H	-H	-H	-H	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	.
$\chi_{97}^{(102)}$	3	3	3	-3	-3	-3	-H	-H	-H	H	H	H	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	.
$\chi_{97}^{(103)}$	3	3	3	-3	-3	-3	H	H	H	-H	-H	-H	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	.
$\chi_{97}^{(104)}$	3	3	3	-3	-3	-3	-H	-H	-H	H	H	H	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	.
$\chi_{97}^{(105)}$	3	C	/C	-/C	-3	-C	I	-/I	H	-H	-I	/I	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.
$\chi_{97}^{(106)}$	3	/C	C	-C	-3	-/C	-/I	I	H	-H	/I	-I	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.
$\chi_{97}^{(107)}$	3	C	/C	-/C	-3	-C	-I	/I	-H	H	I	-/I	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.
$\chi_{97}^{(108)}$	3	/C	C	-C	-3	-/C	/I	-I	-H	H	-/I	I	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.
$\chi_{97}^{(109)}$	3	C	/C	-/C	-3	-C	I	-/I	H	-H	-I	/I	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.
$\chi_{97}^{(110)}$	3	/C	C	-C	-3	-/C	-/I	I	H	-H	/I	-I	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.
$\chi_{97}^{(111)}$	3	C	/C	-/C	-3	-C	-I	/I	-H	H	I	-/I	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.
$\chi_{97}^{(112)}$	3	/C	C	-C	-3	-/C	/I	-I	-H	H	-/I	I	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.
$\chi_{97}^{(113)}$	3	C	/C	/C	3	C	C	/C	3	3	C	/C	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.
$\chi_{97}^{(114)}$	3	/C	C	C	3	/C	/C	C	3	3	/C	C	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.
$\chi_{97}^{(115)}$	3	C	/C	/C	3	C	C	/C	3	3	C	/C	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.
$\chi_{97}^{(116)}$	3	/C	C	C	3	/C	/C	C	3	3	/C	C	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.
$\chi_{97}^{(117)}$	3	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	.
$\chi_{97}^{(118)}$	3	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	.
$\chi_{97}^{(119)}$	3	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	.
$\chi_{97}^{(120)}$	3	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	.

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$\chi_{97}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(2)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1
$\chi_{97}^{(3)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1
$\chi_{97}^{(4)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(5)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(6)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(9)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1
$\chi_{97}^{(10)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1
$\chi_{97}^{(11)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1
$\chi_{97}^{(12)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1
$\chi_{97}^{(13)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1
$\chi_{97}^{(14)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1
$\chi_{97}^{(15)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1
$\chi_{97}^{(16)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1
$\chi_{97}^{(17)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	-1
$\chi_{97}^{(18)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	-1
$\chi_{97}^{(19)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	-1
$\chi_{97}^{(20)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	-1
$\chi_{97}^{(21)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	-1
$\chi_{97}^{(22)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	-1
$\chi_{97}^{(23)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	-1
$\chi_{97}^{(24)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	-1
$\chi_{97}^{(25)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1
$\chi_{97}^{(26)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1
$\chi_{97}^{(27)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1
$\chi_{97}^{(28)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1
$\chi_{97}^{(29)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1
$\chi_{97}^{(30)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1
$\chi_{97}^{(31)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1
$\chi_{97}^{(32)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1
$\chi_{97}^{(33)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	-1
$\chi_{97}^{(34)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-1
$\chi_{97}^{(35)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	-1
$\chi_{97}^{(36)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-1
$\chi_{97}^{(37)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1
$\chi_{97}^{(38)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1
$\chi_{97}^{(39)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1
$\chi_{97}^{(40)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1
$\chi_{97}^{(41)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1
$\chi_{97}^{(42)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1
$\chi_{97}^{(43)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1
$\chi_{97}^{(44)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1
$\chi_{97}^{(45)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1

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$\chi_{97}^{(46)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1
$\chi_{97}^{(47)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1
$\chi_{97}^{(48)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1
$\chi_{97}^{(49)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(50)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(51)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(52)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(53)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(54)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(55)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(56)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(57)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(58)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(59)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(60)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(61)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(62)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(63)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(64)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(65)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(66)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(67)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(68)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(69)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(70)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(71)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(72)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(73)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(74)}$	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{97}^{(75)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{97}^{(76)}$	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(77)}$	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{97}^{(78)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(79)}$	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(80)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{97}^{(81)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	1
$\chi_{97}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	1
$\chi_{97}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	A	/A	1	1	A	/A	-1
$\chi_{97}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	/A	A	1	1	/A	A	-1
$\chi_{97}^{(85)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	1
$\chi_{97}^{(86)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	1
$\chi_{97}^{(87)}$	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1
$\chi_{97}^{(88)}$	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1
$\chi_{97}^{(89)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	1
$\chi_{97}^{(90)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	1

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$\chi_{97}^{(91)}$	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1
$\chi_{97}^{(92)}$	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1
$\chi_{97}^{(93)}$	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	1
$\chi_{97}^{(94)}$	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	1
$\chi_{97}^{(95)}$	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	1
$\chi_{97}^{(96)}$	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	1
$\chi_{97}^{(97)}$	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-1
$\chi_{97}^{(98)}$	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-1
$\chi_{97}^{(99)}$	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-1
$\chi_{97}^{(100)}$	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-1
$\chi_{97}^{(101)}$	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1
$\chi_{97}^{(102)}$	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1
$\chi_{97}^{(103)}$	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	1
$\chi_{97}^{(104)}$	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	1
$\chi_{97}^{(105)}$	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-1
$\chi_{97}^{(106)}$	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-1
$\chi_{97}^{(107)}$	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-1
$\chi_{97}^{(108)}$	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-1
$\chi_{97}^{(109)}$	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	1
$\chi_{97}^{(110)}$	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	1
$\chi_{97}^{(111)}$	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	1
$\chi_{97}^{(112)}$	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	1
$\chi_{97}^{(113)}$	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	A	/A	1	1	A	/A	-1
$\chi_{97}^{(114)}$	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	/A	A	1	1	/A	A	-1
$\chi_{97}^{(115)}$	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	1
$\chi_{97}^{(116)}$	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	1
$\chi_{97}^{(117)}$	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1
$\chi_{97}^{(118)}$	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1
$\chi_{97}^{(119)}$	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	1
$\chi_{97}^{(120)}$	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	1

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$\chi_{97}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(2)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{97}^{(3)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(4)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{97}^{(5)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(6)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(7)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(9)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D
$\chi_{97}^{(10)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D
$\chi_{97}^{(11)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D
$\chi_{97}^{(12)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D
$\chi_{97}^{(13)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D
$\chi_{97}^{(14)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D
$\chi_{97}^{(15)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D
$\chi_{97}^{(16)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D
$\chi_{97}^{(17)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	-A	-/A	-1	1	A	/A	/E	-D	-E	E	-/E	D
$\chi_{97}^{(18)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	-A	-/A	-1	1	A	/A	-/E	D	E	-E	/E	-D
$\chi_{97}^{(19)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E	E	D
$\chi_{97}^{(20)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	-/A	-A	-1	1	/A	A	E	D	-/E	/E	-E	-D
$\chi_{97}^{(21)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	A	/A	1	-1	-A	-/A	-/E	D	E	-E	/E	-D
$\chi_{97}^{(22)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	A	/A	1	-1	-A	-/A	/E	-D	-E	E	-/E	D
$\chi_{97}^{(23)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	/A	A	1	-1	-/A	-A	E	D	-/E	/E	-E	-D
$\chi_{97}^{(24)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E	E	D
$\chi_{97}^{(25)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-A	-/A	-1	1	A	/A	/E	-D	-E	E	-/E	D
$\chi_{97}^{(26)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-A	-/A	-1	1	A	/A	-/E	D	E	-E	/E	-D
$\chi_{97}^{(27)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E	E	D
$\chi_{97}^{(28)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-/A	-A	-1	1	/A	A	E	D	-/E	/E	-E	-D
$\chi_{97}^{(29)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	A	/A	1	-1	-A	-/A	-/E	D	E	-E	/E	-D
$\chi_{97}^{(30)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	A	/A	1	-1	-A	-/A	/E	-D	-E	E	-/E	D

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$\chi_{97}^{(31)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	/A	A	1	-1	-/A	-A	E	D	-/E	/E	-E	-D
$\chi_{97}^{(32)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E	E	D
$\chi_{97}^{(33)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1
$\chi_{97}^{(34)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1
$\chi_{97}^{(35)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1
$\chi_{97}^{(36)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1
$\chi_{97}^{(37)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1
$\chi_{97}^{(38)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1
$\chi_{97}^{(39)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1
$\chi_{97}^{(40)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1
$\chi_{97}^{(41)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1
$\chi_{97}^{(42)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1
$\chi_{97}^{(43)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	/A	1	A	A	/A	1
$\chi_{97}^{(44)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	A	1	/A	/A	A	1
$\chi_{97}^{(45)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1
$\chi_{97}^{(46)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1
$\chi_{97}^{(47)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	A	/A	1	1	A	/A	/A	1	A	A	/A	1
$\chi_{97}^{(48)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	/A	A	1	1	/A	A	A	1	/A	/A	A	1
$\chi_{97}^{(49)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2
$\chi_{97}^{(50)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
$\chi_{97}^{(51)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{97}^{(52)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2
$\chi_{97}^{(53)}$	.	.	.	.	.	.	.	.	.	.	.	B	/B	2	2	B	/B	/B	2	B	B	/B	2
$\chi_{97}^{(54)}$	.	.	.	.	.	.	.	.	.	.	.	/B	B	2	2	/B	B	B	2	/B	/B	B	2
$\chi_{97}^{(55)}$	.	.	.	.	.	.	.	.	.	.	.	B	/B	2	2	B	/B	-/B	-2	-B	-B	-/B	-2
$\chi_{97}^{(56)}$	.	.	.	.	.	.	.	.	.	.	.	/B	B	2	2	/B	B	-B	-2	-/B	-/B	-B	-2
$\chi_{97}^{(57)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	F	F	F	-F	-F	-F
$\chi_{97}^{(58)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	-F	-F	-F	F	F	F
$\chi_{97}^{(59)}$	.	.	.	.	.	.	.	.	.	.	.	B	/B	2	-2	-B	-/B	-/G	F	G	-G	/G	-F
$\chi_{97}^{(60)}$	.	.	.	.	.	.	.	.	.	.	.	/B	B	2	-2	-/B	-B	G	F	-/G	/G	-G	-F
$\chi_{97}^{(61)}$	.	.	.	.	.	.	.	.	.	.	.	B	/B	2	-2	-B	-/B	/G	-F	-G	G	-/G	F
$\chi_{97}^{(62)}$	.	.	.	.	.	.	.	.	.	.	.	/B	B	2	-2	-/B	-B	-G	-F	/G	-/G	G	F
$\chi_{97}^{(63)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	-F	-F	-F	F	F	F
$\chi_{97}^{(64)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	F	F	F	-F	-F	-F
$\chi_{97}^{(65)}$	.	.	.	.	.	.	.	.	.	.	.	-B	-/B	-2	2	B	/B	/G	-F	-G	G	-/G	F
$\chi_{97}^{(66)}$	.	.	.	.	.	.	.	.	.	.	.	-/B	-B	-2	2	/B	B	-G	-F	/G	-/G	G	F
$\chi_{97}^{(67)}$	.	.	.	.	.	.	.	.	.	.	.	-B	-/B	-2	2	B	/B	-/G	F	G	-G	/G	-F
$\chi_{97}^{(68)}$	.	.	.	.	.	.	.	.	.	.	.	-/B	-B	-2	2	/B	B	G	F	-/G	/G	-G	-F
$\chi_{97}^{(69)}$	.	.	.	.	.	.	.	.	.	.	.	-B	-/B	-2	-2	-B	-/B	-/B	-2	-B	-B	-/B	-2
$\chi_{97}^{(70)}$	.	.	.	.	.	.	.	.	.	.	.	-/B	-B	-2	-2	-/B	-B	-B	-2	-/B	-/B	-B	-2
$\chi_{97}^{(71)}$	.	.	.	.	.	.	.	.	.	.	.	-B	-/B	-2	-2	-B	-/B	/B	2	B	B	/B	2
$\chi_{97}^{(72)}$	.	.	.	.	.	.	.	.	.	.	.	-/B	-B	-2	-2	-/B	-B	B	2	/B	/B	B	2
$\chi_{97}^{(73)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(74)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(75)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1

	50					60															70		
$\chi_{97}^{(76)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{97}^{(77)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(78)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(79)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(80)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(81)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1
$\chi_{97}^{(82)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1
$\chi_{97}^{(83)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1
$\chi_{97}^{(84)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1
$\chi_{97}^{(85)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1
$\chi_{97}^{(86)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1
$\chi_{97}^{(87)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1
$\chi_{97}^{(88)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1
$\chi_{97}^{(89)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D
$\chi_{97}^{(90)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D
$\chi_{97}^{(91)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D
$\chi_{97}^{(92)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D
$\chi_{97}^{(93)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-A	-/A	-1	1	A	/A	/E	-D	-E	E	-/E	D
$\chi_{97}^{(94)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E	E	D
$\chi_{97}^{(95)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-A	-/A	-1	1	A	/A	-/E	D	E	-E	/E	-D
$\chi_{97}^{(96)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-/A	-A	-1	1	/A	A	E	D	-/E	/E	-E	-D
$\chi_{97}^{(97)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	-A	-/A	-1	1	A	/A	/E	-D	-E	E	-/E	D
$\chi_{97}^{(98)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E	E	D
$\chi_{97}^{(99)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	-A	-/A	-1	1	A	/A	-/E	D	E	-E	/E	-D
$\chi_{97}^{(100)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	-/A	-A	-1	1	/A	A	E	D	-/E	/E	-E	-D
$\chi_{97}^{(101)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D
$\chi_{97}^{(102)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D
$\chi_{97}^{(103)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D
$\chi_{97}^{(104)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D
$\chi_{97}^{(105)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	A	/A	1	-1	-A	-/A	-/E	D	E	-E	/E	-D
$\chi_{97}^{(106)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	/A	A	1	-1	-/A	-A	E	D	-/E	/E	-E	-D
$\chi_{97}^{(107)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	A	/A	1	-1	-A	-/A	/E	-D	-E	E	-/E	D
$\chi_{97}^{(108)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E	E	D
$\chi_{97}^{(109)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	A	/A	1	-1	-A	-/A	-/E	D	E	-E	/E	-D
$\chi_{97}^{(110)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	/A	A	1	-1	-/A	-A	E	D	-/E	/E	-E	-D
$\chi_{97}^{(111)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	A	/A	1	-1	-A	-/A	/E	-D	-E	E	-/E	D
$\chi_{97}^{(112)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E	E	D
$\chi_{97}^{(113)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	/A	1	A	A	/A	1
$\chi_{97}^{(114)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	A	1	/A	/A	A	1
$\chi_{97}^{(115)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	A	/A	1	1	A	/A	/A	1	A	A	/A	1
$\chi_{97}^{(116)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	/A	A	1	1	/A	A	A	1	/A	/A	A	1
$\chi_{97}^{(117)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1
$\chi_{97}^{(118)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1
$\chi_{97}^{(119)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1
$\chi_{97}^{(120)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1

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$\chi_{97}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(2)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{97}^{(3)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{97}^{(4)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{97}^{(5)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{97}^{(6)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(9)}$	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	-D	-D	-D	D
$\chi_{97}^{(10)}$	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	D	D	D	-D
$\chi_{97}^{(11)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D
$\chi_{97}^{(12)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D
$\chi_{97}^{(13)}$	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	-D	-D	-D	D
$\chi_{97}^{(14)}$	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	D	D	D	-D
$\chi_{97}^{(15)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D
$\chi_{97}^{(16)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D
$\chi_{97}^{(17)}$	-A	-/A	-1	1	A	/A	/E	-D	-E	E	-/E	D	-A	-/A	-1	1	A	/A	/E	-D	-E	E
$\chi_{97}^{(18)}$	-A	-/A	-1	1	A	/A	-/E	D	E	-E	/E	-D	-A	-/A	-1	1	A	/A	-/E	D	E	-E
$\chi_{97}^{(19)}$	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E	E	D	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E
$\chi_{97}^{(20)}$	-/A	-A	-1	1	/A	A	E	D	-/E	/E	-E	-D	-/A	-A	-1	1	/A	A	E	D	-/E	/E
$\chi_{97}^{(21)}$	A	/A	1	-1	-A	-/A	-/E	D	E	-E	/E	-D	A	/A	1	-1	-A	-/A	-/E	D	E	-E
$\chi_{97}^{(22)}$	A	/A	1	-1	-A	-/A	/E	-D	-E	E	-/E	D	A	/A	1	-1	-A	-/A	/E	-D	-E	E
$\chi_{97}^{(23)}$	/A	A	1	-1	-/A	-A	E	D	-/E	/E	-E	-D	/A	A	1	-1	-/A	-A	E	D	-/E	/E
$\chi_{97}^{(24)}$	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E	E	D	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E
$\chi_{97}^{(25)}$	-A	-/A	-1	1	A	/A	/E	-D	-E	E	-/E	D	-A	-/A	-1	1	A	/A	/E	-D	-E	E
$\chi_{97}^{(26)}$	-A	-/A	-1	1	A	/A	-/E	D	E	-E	/E	-D	-A	-/A	-1	1	A	/A	-/E	D	E	-E
$\chi_{97}^{(27)}$	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E	E	D	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E
$\chi_{97}^{(28)}$	-/A	-A	-1	1	/A	A	E	D	-/E	/E	-E	-D	-/A	-A	-1	1	/A	A	E	D	-/E	/E
$\chi_{97}^{(29)}$	A	/A	1	-1	-A	-/A	-/E	D	E	-E	/E	-D	A	/A	1	-1	-A	-/A	-/E	D	E	-E
$\chi_{97}^{(30)}$	A	/A	1	-1	-A	-/A	/E	-D	-E	E	-/E	D	A	/A	1	-1	-A	-/A	/E	-D	-E	E
$\chi_{97}^{(31)}$	/A	A	1	-1	-/A	-A	E	D	-/E	/E	-E	-D	/A	A	1	-1	-/A	-A	E	D	-/E	/E
$\chi_{97}^{(32)}$	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E	E	D	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E
$\chi_{97}^{(33)}$	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	/A	1	A	A
$\chi_{97}^{(34)}$	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A
$\chi_{97}^{(35)}$	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	A	/A	1	1	A	/A	-/A	-1	-A	-A
$\chi_{97}^{(36)}$	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	/A	A	1	1	/A	A	-A	-1	-/A	-/A
$\chi_{97}^{(37)}$	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	/A	1	A	A
$\chi_{97}^{(38)}$	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A
$\chi_{97}^{(39)}$	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	A	/A	1	1	A	/A	-/A	-1	-A	-A
$\chi_{97}^{(40)}$	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	/A	A	1	1	/A	A	-A	-1	-/A	-/A
$\chi_{97}^{(41)}$	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A
$\chi_{97}^{(42)}$	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A
$\chi_{97}^{(43)}$	A	/A	1	1	A	/A	/A	1	A	A	/A	1	A	/A	1	1	A	/A	/A	1	A	A
$\chi_{97}^{(44)}$	/A	A	1	1	/A	A	A	1	/A	/A	A	1	/A	A	1	1	/A	A	A	1	/A	/A
$\chi_{97}^{(45)}$	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A

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$\chi_{97}^{(46)}$	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A
$\chi_{97}^{(47)}$	A	/A	1	1	A	/A	/A	1	A	A	/A	1	A	/A	1	1	A	/A	/A	1	A	A
$\chi_{97}^{(48)}$	/A	A	1	1	/A	A	A	1	/A	/A	A	1	/A	A	1	1	/A	A	A	1	/A	/A
$\chi_{97}^{(49)}$	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(50)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{97}^{(51)}$	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(52)}$	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{97}^{(53)}$	B	/B	2	2	B	/B	/B	2	B	B	/B	2	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A
$\chi_{97}^{(54)}$	/B	B	2	2	/B	B	B	2	/B	/B	B	2	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A
$\chi_{97}^{(55)}$	B	/B	2	2	B	/B	-/B	-2	-B	-B	-/B	-2	-A	-/A	-1	-1	-A	-/A	/A	1	A	A
$\chi_{97}^{(56)}$	/B	B	2	2	/B	B	-B	-2	-/B	-/B	-B	-2	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A
$\chi_{97}^{(57)}$	2	2	2	-2	-2	-2	F	F	F	-F	-F	-F	-1	-1	-1	1	1	1	-D	-D	-D	D
$\chi_{97}^{(58)}$	2	2	2	-2	-2	-2	-F	-F	-F	F	F	F	-1	-1	-1	1	1	1	D	D	D	-D
$\chi_{97}^{(59)}$	B	/B	2	-2	-B	-/B	-/G	F	G	-G	/G	-F	-A	-/A	-1	1	A	/A	/E	-D	-E	E
$\chi_{97}^{(60)}$	/B	B	2	-2	-/B	-B	G	F	-/G	/G	-G	-F	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E
$\chi_{97}^{(61)}$	B	/B	2	-2	-B	-/B	/G	-F	-G	G	-/G	F	-A	-/A	-1	1	A	/A	-/E	D	E	-E
$\chi_{97}^{(62)}$	/B	B	2	-2	-/B	-B	-G	-F	/G	-/G	G	F	-/A	-A	-1	1	/A	A	E	D	-/E	/E
$\chi_{97}^{(63)}$	-2	-2	-2	2	2	2	-F	-F	-F	F	F	F	1	1	1	-1	-1	-1	D	D	D	-D
$\chi_{97}^{(64)}$	-2	-2	-2	2	2	2	F	F	F	-F	-F	-F	1	1	1	-1	-1	-1	-D	-D	-D	D
$\chi_{97}^{(65)}$	-B	-/B	-2	2	B	/B	/G	-F	-G	G	-/G	F	A	/A	1	-1	-A	-/A	-/E	D	E	-E
$\chi_{97}^{(66)}$	-/B	-B	-2	2	/B	B	-G	-F	/G	-/G	G	F	/A	A	1	-1	-/A	-A	E	D	-/E	/E
$\chi_{97}^{(67)}$	-B	-/B	-2	2	B	/B	-/G	F	G	-G	/G	-F	A	/A	1	-1	-A	-/A	/E	-D	-E	E
$\chi_{97}^{(68)}$	-/B	-B	-2	2	/B	B	G	F	-/G	/G	-G	-F	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E
$\chi_{97}^{(69)}$	-B	-/B	-2	-2	-B	-/B	-/B	-2	-B	-B	-/B	-2	A	/A	1	1	A	/A	/A	1	A	A
$\chi_{97}^{(70)}$	-/B	-B	-2	-2	-/B	-B	-B	-2	-/B	-/B	-B	-2	/A	A	1	1	/A	A	A	1	/A	/A
$\chi_{97}^{(71)}$	-B	-/B	-2	-2	-B	-/B	/B	2	B	B	/B	2	A	/A	1	1	A	/A	-/A	-1	-A	-A
$\chi_{97}^{(72)}$	-/B	-B	-2	-2	-/B	-B	B	2	/B	/B	B	2	/A	A	1	1	/A	A	-A	-1	-/A	-/A
$\chi_{97}^{(73)}$	3	3	3	3	3	3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(74)}$	3	3	3	3	3	3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(75)}$	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(76)}$	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(77)}$	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(78)}$	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(79)}$	-3	-3	-3	-3	-3	-3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(80)}$	-3	-3	-3	-3	-3	-3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(81)}$	C	/C	3	3	C	/C	/C	3	C	C	/C	3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(82)}$	/C	C	3	3	/C	C	C	3	/C	/C	C	3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(83)}$	C	/C	3	3	C	/C	/C	3	C	C	/C	3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(84)}$	/C	C	3	3	/C	C	C	3	/C	/C	C	3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(85)}$	C	/C	3	3	C	/C	-/C	-3	-C	-C	-/C	-3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(86)}$	/C	C	3	3	/C	C	-C	-3	-/C	-/C	-C	-3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(87)}$	C	/C	3	3	C	/C	-/C	-3	-C	-C	-/C	-3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(88)}$	/C	C	3	3	/C	C	-C	-3	-/C	-/C	-C	-3	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(89)}$	3	3	3	-3	-3	-3	H	H	H	-H	-H	-H	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(90)}$	3	3	3	-3	-3	-3	-H	-H	-H	H	H	H	.	.	.	.	.	.	.	.	.	.

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$\chi_{97}^{(91)}$	3	3	3	-3	-3	-3	H	H	H	-H	-H	-H	.	.	.	.	.	.	.	.
$\chi_{97}^{(92)}$	3	3	3	-3	-3	-3	-H	-H	-H	H	H	H	.	.	.	.	.	.	.	.
$\chi_{97}^{(93)}$	C	/C	3	-3	-C	-/C	-/I	H	I	-I	/I	-H	.	.	.	.	.	.	.	.
$\chi_{97}^{(94)}$	/C	C	3	-3	-/C	-C	I	H	-/I	/I	-I	-H	.	.	.	.	.	.	.	.
$\chi_{97}^{(95)}$	C	/C	3	-3	-C	-/C	/I	-H	-I	I	-/I	H	.	.	.	.	.	.	.	.
$\chi_{97}^{(96)}$	/C	C	3	-3	-/C	-C	-I	-H	/I	-/I	I	H	.	.	.	.	.	.	.	.
$\chi_{97}^{(97)}$	C	/C	3	-3	-C	-/C	-/I	H	I	-I	/I	-H	.	.	.	.	.	.	.	.
$\chi_{97}^{(98)}$	/C	C	3	-3	-/C	-C	I	H	-/I	/I	-I	-H	.	.	.	.	.	.	.	.
$\chi_{97}^{(99)}$	C	/C	3	-3	-C	-/C	/I	-H	-I	I	-/I	H	.	.	.	.	.	.	.	.
$\chi_{97}^{(100)}$	/C	C	3	-3	-/C	-C	-I	-H	/I	-/I	I	H	.	.	.	.	.	.	.	.
$\chi_{97}^{(101)}$	-3	-3	-3	3	3	3	-H	-H	-H	H	H	H	.	.	.	.	.	.	.	.
$\chi_{97}^{(102)}$	-3	-3	-3	3	3	3	H	H	H	-H	-H	-H	.	.	.	.	.	.	.	.
$\chi_{97}^{(103)}$	-3	-3	-3	3	3	3	-H	-H	-H	H	H	H	.	.	.	.	.	.	.	.
$\chi_{97}^{(104)}$	-3	-3	-3	3	3	3	H	H	H	-H	-H	-H	.	.	.	.	.	.	.	.
$\chi_{97}^{(105)}$	-C	-/C	-3	3	C	/C	/I	-H	-I	I	-/I	H	.	.	.	.	.	.	.	.
$\chi_{97}^{(106)}$	-/C	-C	-3	3	/C	C	-I	-H	/I	-/I	I	H	.	.	.	.	.	.	.	.
$\chi_{97}^{(107)}$	-C	-/C	-3	3	C	/C	-/I	H	I	-I	/I	-H	.	.	.	.	.	.	.	.
$\chi_{97}^{(108)}$	-/C	-C	-3	3	/C	C	I	H	-/I	/I	-I	-H	.	.	.	.	.	.	.	.
$\chi_{97}^{(109)}$	-C	-/C	-3	3	C	/C	/I	-H	-I	I	-/I	H	.	.	.	.	.	.	.	.
$\chi_{97}^{(110)}$	-/C	-C	-3	3	/C	C	-I	-H	/I	-/I	I	H	.	.	.	.	.	.	.	.
$\chi_{97}^{(111)}$	-C	-/C	-3	3	C	/C	-/I	H	I	-I	/I	-H	.	.	.	.	.	.	.	.
$\chi_{97}^{(112)}$	-/C	-C	-3	3	/C	C	I	H	-/I	/I	-I	-H	.	.	.	.	.	.	.	.
$\chi_{97}^{(113)}$	-C	-/C	-3	-3	-C	-/C	-/C	-3	-C	-C	-/C	-3	.	.	.	.	.	.	.	.
$\chi_{97}^{(114)}$	-/C	-C	-3	-3	-/C	-C	-C	-3	-/C	-/C	-C	-3	.	.	.	.	.	.	.	.
$\chi_{97}^{(115)}$	-C	-/C	-3	-3	-C	-/C	-/C	-3	-C	-C	-/C	-3	.	.	.	.	.	.	.	.
$\chi_{97}^{(116)}$	-/C	-C	-3	-3	-/C	-C	-C	-3	-/C	-/C	-C	-3	.	.	.	.	.	.	.	.
$\chi_{97}^{(117)}$	-C	-/C	-3	-3	-C	-/C	/C	3	C	C	/C	3	.	.	.	.	.	.	.	.
$\chi_{97}^{(118)}$	-/C	-C	-3	-3	-/C	-C	C	3	/C	/C	C	3	.	.	.	.	.	.	.	.
$\chi_{97}^{(119)}$	-C	-/C	-3	-3	-C	-/C	/C	3	C	C	/C	3	.	.	.	.	.	.	.	.
$\chi_{97}^{(120)}$	-/C	-C	-3	-3	-/C	-C	C	3	/C	/C	C	3	.	.	.	.	.	.	.	.

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$\chi_{97}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(2)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1
$\chi_{97}^{(3)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(4)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(5)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1
$\chi_{97}^{(6)}$	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{97}^{(7)}$	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(9)}$	D	D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D
$\chi_{97}^{(10)}$	-D	-D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D
$\chi_{97}^{(11)}$	-D	-D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	-D
$\chi_{97}^{(12)}$	D	D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	D
$\chi_{97}^{(13)}$	D	D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	-D
$\chi_{97}^{(14)}$	-D	-D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	D
$\chi_{97}^{(15)}$	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D

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$\chi_{97}^{(16)}$	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D
$\chi_{97}^{(17)}$	-/E	D	A	/A	1	-1	-A	-/A	-/E	D	E	-E	/E	-D	A	/A	1	-1	-A	-/A	-/E
$\chi_{97}^{(18)}$	/E	-D	A	/A	1	-1	-A	-/A	/E	-D	-E	E	-/E	D	A	/A	1	-1	-A	-/A	/E
$\chi_{97}^{(19)}$	E	D	/A	A	1	-1	-/A	-A	E	D	-/E	/E	-E	-D	/A	A	1	-1	-/A	-A	E
$\chi_{97}^{(20)}$	-E	-D	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E	E	D	/A	A	1	-1	-/A	-A	-E
$\chi_{97}^{(21)}$	/E	-D	-A	-/A	-1	1	A	/A	/E	-D	-E	E	-/E	D	-A	-/A	-1	1	A	/A	/E
$\chi_{97}^{(22)}$	-/E	D	-A	-/A	-1	1	A	/A	-/E	D	E	-E	/E	-D	-A	-/A	-1	1	A	/A	-/E
$\chi_{97}^{(23)}$	-E	-D	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E	E	D	-/A	-A	-1	1	/A	A	-E
$\chi_{97}^{(24)}$	E	D	-/A	-A	-1	1	/A	A	E	D	-/E	/E	-E	-D	-/A	-A	-1	1	/A	A	E
$\chi_{97}^{(25)}$	-/E	D	-A	-/A	-1	1	A	/A	/E	-D	-E	E	-/E	D	-A	-/A	-1	1	A	/A	/E
$\chi_{97}^{(26)}$	/E	-D	-A	-/A	-1	1	A	/A	-/E	D	E	-E	/E	-D	-A	-/A	-1	1	A	/A	-/E
$\chi_{97}^{(27)}$	E	D	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E	E	D	-/A	-A	-1	1	/A	A	-E
$\chi_{97}^{(28)}$	-E	-D	-/A	-A	-1	1	/A	A	E	D	-/E	/E	-E	-D	-/A	-A	-1	1	/A	A	E
$\chi_{97}^{(29)}$	/E	-D	A	/A	1	-1	-A	-/A	-/E	D	E	-E	/E	-D	A	/A	1	-1	-A	-/A	-/E
$\chi_{97}^{(30)}$	-/E	D	A	/A	1	-1	-A	-/A	/E	-D	-E	E	-/E	D	A	/A	1	-1	-A	-/A	/E
$\chi_{97}^{(31)}$	-E	-D	/A	A	1	-1	-/A	-A	E	D	-/E	/E	-E	-D	/A	A	1	-1	-/A	-A	E
$\chi_{97}^{(32)}$	E	D	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E	E	D	/A	A	1	-1	-/A	-A	-E
$\chi_{97}^{(33)}$	/A	1	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	A	/A	1	1	A	/A	-/A
$\chi_{97}^{(34)}$	A	1	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	/A	A	1	1	/A	A	-A
$\chi_{97}^{(35)}$	-/A	-1	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	/A
$\chi_{97}^{(36)}$	-A	-1	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	A
$\chi_{97}^{(37)}$	/A	1	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	/A
$\chi_{97}^{(38)}$	A	1	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	A
$\chi_{97}^{(39)}$	-/A	-1	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	A	/A	1	1	A	/A	-/A
$\chi_{97}^{(40)}$	-A	-1	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	/A	A	1	1	/A	A	-A
$\chi_{97}^{(41)}$	-/A	-1	A	/A	1	1	A	/A	/A	1	A	A	/A	1	A	/A	1	1	A	/A	/A
$\chi_{97}^{(42)}$	-A	-1	/A	A	1	1	/A	A	A	1	/A	/A	A	1	/A	A	1	1	/A	A	A
$\chi_{97}^{(43)}$	/A	1	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	-/A
$\chi_{97}^{(44)}$	A	1	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	-A
$\chi_{97}^{(45)}$	-/A	-1	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	-/A
$\chi_{97}^{(46)}$	-A	-1	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	-A
$\chi_{97}^{(47)}$	/A	1	A	/A	1	1	A	/A	/A	1	A	A	/A	1	A	/A	1	1	A	/A	/A
$\chi_{97}^{(48)}$	A	1	/A	A	1	1	/A	A	A	1	/A	/A	A	1	/A	A	1	1	/A	A	A
$\chi_{97}^{(49)}$	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(50)}$	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(51)}$	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(52)}$	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(53)}$	-/A	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(54)}$	-A	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(55)}$	/A	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(56)}$	A	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(57)}$	D	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(58)}$	-D	-D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(59)}$	-/E	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(60)}$	E	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

			100													110					
$\chi_{97}^{(61)}$	/E	-D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(62)}$	-E	-D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(63)}$	-D	-D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(64)}$	D	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(65)}$	/E	-D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(66)}$	-E	-D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(67)}$	-/E	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(68)}$	E	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(69)}$	/A	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(70)}$	A	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(71)}$	-/A	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(72)}$	-A	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{97}^{(73)}$	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{97}^{(74)}$	.	.	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(75)}$	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{97}^{(76)}$	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(77)}$	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{97}^{(78)}$	.	.	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{97}^{(79)}$	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{97}^{(80)}$	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{97}^{(81)}$	.	.	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	A	/A	1	1	A	/A	/A
$\chi_{97}^{(82)}$	.	.	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	/A	A	1	1	/A	A	A
$\chi_{97}^{(83)}$	.	.	A	/A	1	1	A	/A	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	-/A
$\chi_{97}^{(84)}$	.	.	/A	A	1	1	/A	A	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	-A
$\chi_{97}^{(85)}$	.	.	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1	A	/A	1	1	A	/A	-/A
$\chi_{97}^{(86)}$	.	.	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1	/A	A	1	1	/A	A	-A
$\chi_{97}^{(87)}$	.	.	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	/A
$\chi_{97}^{(88)}$	.	.	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	A
$\chi_{97}^{(89)}$	.	.	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	D
$\chi_{97}^{(90)}$	.	.	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	-D
$\chi_{97}^{(91)}$	.	.	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	-D
$\chi_{97}^{(92)}$	.	.	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	D
$\chi_{97}^{(93)}$	.	.	-A	-/A	-1	1	A	/A	/E	-D	-E	E	-/E	D	A	/A	1	-1	-A	-/A	-/E
$\chi_{97}^{(94)}$	.	.	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E	E	D	/A	A	1	-1	-/A	-A	E
$\chi_{97}^{(95)}$	.	.	-A	-/A	-1	1	A	/A	-/E	D	E	-E	/E	-D	A	/A	1	-1	-A	-/A	/E
$\chi_{97}^{(96)}$	.	.	-/A	-A	-1	1	/A	A	E	D	-/E	/E	-E	-D	/A	A	1	-1	-/A	-A	-E
$\chi_{97}^{(97)}$	.	.	A	/A	1	-1	-A	-/A	-/E	D	E	-E	/E	-D	-A	-/A	-1	1	A	/A	/E
$\chi_{97}^{(98)}$	.	.	/A	A	1	-1	-/A	-A	E	D	-/E	/E	-E	-D	-/A	-A	-1	1	/A	A	-E
$\chi_{97}^{(99)}$	.	.	A	/A	1	-1	-A	-/A	/E	-D	-E	E	-/E	D	-A	-/A	-1	1	A	/A	-/E
$\chi_{97}^{(100)}$	.	.	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E	E	D	-/A	-A	-1	1	/A	A	E
$\chi_{97}^{(101)}$	.	.	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	D
$\chi_{97}^{(102)}$	.	.	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	-D
$\chi_{97}^{(103)}$	.	.	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	-D
$\chi_{97}^{(104)}$	.	.	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	D
$\chi_{97}^{(105)}$	.	.	-A	-/A	-1	1	A	/A	/E	-D	-E	E	-/E	D	A	/A	1	-1	-A	-/A	-/E

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$\chi_{97}^{(106)}$	.	.	-/A	-A	-1	1	/A	A	-E	-D	/E	-/E	E	D	/A	A	1	-1	-/A	-A	E
$\chi_{97}^{(107)}$	.	.	-A	-/A	-1	1	A	/A	-/E	D	E	-E	/E	-D	A	/A	1	-1	-A	-/A	/E
$\chi_{97}^{(108)}$	.	.	-/A	-A	-1	1	/A	A	E	D	-/E	/E	-E	-D	/A	A	1	-1	-/A	-A	-E
$\chi_{97}^{(109)}$	.	.	A	/A	1	-1	-A	-/A	-/E	D	E	-E	/E	-D	-A	-/A	-1	1	A	/A	/E
$\chi_{97}^{(110)}$	.	.	/A	A	1	-1	-/A	-A	E	D	-/E	/E	-E	-D	-/A	-A	-1	1	/A	A	-E
$\chi_{97}^{(111)}$	.	.	A	/A	1	-1	-A	-/A	/E	-D	-E	E	-/E	D	-A	-/A	-1	1	A	/A	-/E
$\chi_{97}^{(112)}$	.	.	/A	A	1	-1	-/A	-A	-E	-D	/E	-/E	E	D	-/A	-A	-1	1	/A	A	E
$\chi_{97}^{(113)}$	.	.	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	A	/A	1	1	A	/A	/A
$\chi_{97}^{(114)}$	.	.	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	/A	A	1	1	/A	A	A
$\chi_{97}^{(115)}$	.	.	A	/A	1	1	A	/A	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	-/A
$\chi_{97}^{(116)}$	.	.	/A	A	1	1	/A	A	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	-A
$\chi_{97}^{(117)}$	.	.	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1	A	/A	1	1	A	/A	-/A
$\chi_{97}^{(118)}$	.	.	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1	/A	A	1	1	/A	A	-A
$\chi_{97}^{(119)}$	.	.	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	/A
$\chi_{97}^{(120)}$	.	.	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	A

	120				
$\chi_{97}^{(1)}$	1	1	1	1	1
$\chi_{97}^{(2)}$	-1	-1	-1	-1	-1
$\chi_{97}^{(3)}$	1	1	1	1	1
$\chi_{97}^{(4)}$	1	1	1	1	1
$\chi_{97}^{(5)}$	-1	-1	-1	-1	-1
$\chi_{97}^{(6)}$	1	1	1	1	1
$\chi_{97}^{(7)}$	-1	-1	-1	-1	-1
$\chi_{97}^{(8)}$	-1	-1	-1	-1	-1
$\chi_{97}^{(9)}$	D	D	-D	-D	-D
$\chi_{97}^{(10)}$	-D	-D	D	D	D
$\chi_{97}^{(11)}$	-D	-D	D	D	D
$\chi_{97}^{(12)}$	D	D	-D	-D	-D
$\chi_{97}^{(13)}$	-D	-D	D	D	D
$\chi_{97}^{(14)}$	D	D	-D	-D	-D
$\chi_{97}^{(15)}$	D	D	-D	-D	-D
$\chi_{97}^{(16)}$	-D	-D	D	D	D
$\chi_{97}^{(17)}$	D	E	-E	/E	-D
$\chi_{97}^{(18)}$	-D	-E	E	-/E	D
$\chi_{97}^{(19)}$	D	-/E	/E	-E	-D
$\chi_{97}^{(20)}$	-D	/E	-/E	E	D
$\chi_{97}^{(21)}$	-D	-E	E	-/E	D
$\chi_{97}^{(22)}$	D	E	-E	/E	-D
$\chi_{97}^{(23)}$	-D	/E	-/E	E	D
$\chi_{97}^{(24)}$	D	-/E	/E	-E	-D
$\chi_{97}^{(25)}$	-D	-E	E	-/E	D
$\chi_{97}^{(26)}$	D	E	-E	/E	-D
$\chi_{97}^{(27)}$	-D	/E	-/E	E	D
$\chi_{97}^{(28)}$	D	-/E	/E	-E	-D
$\chi_{97}^{(29)}$	D	E	-E	/E	-D
$\chi_{97}^{(30)}$	-D	-E	E	-/E	D

	120				
$\chi_{97}^{(31)}$	D	-/E	/E	-E	-D
$\chi_{97}^{(32)}$	-D	/E	-/E	E	D
$\chi_{97}^{(33)}$	-1	-A	-A	-/A	-1
$\chi_{97}^{(34)}$	-1	-/A	-/A	-A	-1
$\chi_{97}^{(35)}$	1	A	A	/A	1
$\chi_{97}^{(36)}$	1	/A	/A	A	1
$\chi_{97}^{(37)}$	1	A	A	/A	1
$\chi_{97}^{(38)}$	1	/A	/A	A	1
$\chi_{97}^{(39)}$	-1	-A	-A	-/A	-1
$\chi_{97}^{(40)}$	-1	-/A	-/A	-A	-1
$\chi_{97}^{(41)}$	1	A	A	/A	1
$\chi_{97}^{(42)}$	1	/A	/A	A	1
$\chi_{97}^{(43)}$	-1	-A	-A	-/A	-1
$\chi_{97}^{(44)}$	-1	-/A	-/A	-A	-1
$\chi_{97}^{(45)}$	-1	-A	-A	-/A	-1
$\chi_{97}^{(46)}$	-1	-/A	-/A	-A	-1
$\chi_{97}^{(47)}$	1	A	A	/A	1
$\chi_{97}^{(48)}$	1	/A	/A	A	1
$\chi_{97}^{(49)}$	.	.	.	.	.
$\chi_{97}^{(50)}$	.	.	.	.	.
$\chi_{97}^{(51)}$	.	.	.	.	.
$\chi_{97}^{(52)}$	.	.	.	.	.
$\chi_{97}^{(53)}$	.	.	.	.	.
$\chi_{97}^{(54)}$	.	.	.	.	.
$\chi_{97}^{(55)}$	.	.	.	.	.
$\chi_{97}^{(56)}$	.	.	.	.	.
$\chi_{97}^{(57)}$	.	.	.	.	.
$\chi_{97}^{(58)}$	.	.	.	.	.
$\chi_{97}^{(59)}$	.	.	.	.	.
$\chi_{97}^{(60)}$	.	.	.	.	.
$\chi_{97}^{(61)}$	.	.	.	.	.
$\chi_{97}^{(62)}$	.	.	.	.	.
$\chi_{97}^{(63)}$	.	.	.	.	.
$\chi_{97}^{(64)}$	.	.	.	.	.
$\chi_{97}^{(65)}$	.	.	.	.	.
$\chi_{97}^{(66)}$	.	.	.	.	.
$\chi_{97}^{(67)}$	.	.	.	.	.
$\chi_{97}^{(68)}$	.	.	.	.	.
$\chi_{97}^{(69)}$	.	.	.	.	.
$\chi_{97}^{(70)}$	.	.	.	.	.
$\chi_{97}^{(71)}$	.	.	.	.	.
$\chi_{97}^{(72)}$	.	.	.	.	.
$\chi_{97}^{(73)}$	1	1	1	1	1
$\chi_{97}^{(74)}$	-1	-1	-1	-1	-1
$\chi_{97}^{(75)}$	-1	-1	-1	-1	-1

	120
$\chi_{97}^{(76)}$	1
$\chi_{97}^{(77)}$	1
$\chi_{97}^{(78)}$	-1
$\chi_{97}^{(79)}$	-1
$\chi_{97}^{(80)}$	1
$\chi_{97}^{(81)}$	1
$\chi_{97}^{(82)}$	1
$\chi_{97}^{(83)}$	-1
$\chi_{97}^{(84)}$	-1
$\chi_{97}^{(85)}$	-1
$\chi_{97}^{(86)}$	-1
$\chi_{97}^{(87)}$	1
$\chi_{97}^{(88)}$	1
$\chi_{97}^{(89)}$	D
$\chi_{97}^{(90)}$	-D
$\chi_{97}^{(91)}$	-D
$\chi_{97}^{(92)}$	D
$\chi_{97}^{(93)}$	D
$\chi_{97}^{(94)}$	D
$\chi_{97}^{(95)}$	-D
$\chi_{97}^{(96)}$	-D
$\chi_{97}^{(97)}$	-D
$\chi_{97}^{(98)}$	-D
$\chi_{97}^{(99)}$	D
$\chi_{97}^{(100)}$	D
$\chi_{97}^{(101)}$	D
$\chi_{97}^{(102)}$	-D
$\chi_{97}^{(103)}$	-D
$\chi_{97}^{(104)}$	D
$\chi_{97}^{(105)}$	D
$\chi_{97}^{(106)}$	D
$\chi_{97}^{(107)}$	-D
$\chi_{97}^{(108)}$	-D
$\chi_{97}^{(109)}$	-D
$\chi_{97}^{(110)}$	-D
$\chi_{97}^{(111)}$	D
$\chi_{97}^{(112)}$	D
$\chi_{97}^{(113)}$	1
$\chi_{97}^{(114)}$	1
$\chi_{97}^{(115)}$	-1
$\chi_{97}^{(116)}$	-1
$\chi_{97}^{(117)}$	-1
$\chi_{97}^{(118)}$	-1
$\chi_{97}^{(119)}$	1
$\chi_{97}^{(120)}$	1

1	1	1	1	1
1	1	1	1	1
-1	-1	-1	-1	-1
-1	-1	-1	-1	-1
1	1	1	1	1
1	A	A	/A	1
1	/A	/A	A	1
-1	-A	-A	-/A	-1
-1	-/A	-/A	-A	-1
-1	-A	-A	-/A	-1
-1	-/A	-/A	-A	-1
1	A	A	/A	1
1	/A	/A	A	1
D	D	-D	-D	-D
-D	-D	D	D	D
-D	-D	D	D	D
D	D	-D	-D	-D
D	E	-E	/E	-D
D	-/E	/E	-E	-D
-D	-E	E	-/E	D
-D	/E	-/E	E	D
-D	-E	E	-/E	D
-D	/E	-/E	E	D
D	E	-E	/E	-D
D	-/E	/E	-E	-D
D	D	-D	-D	-D
-D	-D	D	D	D
-D	-D	D	D	D
D	D	-D	-D	-D
D	E	-E	/E	-D
D	-/E	/E	-E	-D
-D	-E	E	-/E	D
-D	/E	-/E	E	D
-D	-E	E	-/E	D
-D	/E	-/E	E	D
D	E	-E	/E	-D
D	-/E	/E	-E	-D
1	A	A	/A	1
1	/A	/A	A	1
-1	-A	-A	-/A	-1
-1	-/A	-/A	-A	-1
-1	-A	-A	-/A	-1
-1	-/A	-/A	-A	-1
1	A	A	/A	1
1	/A	/A	A	1

where A = E(3)^2 = (-1-ER(-3))/2 = -1-b3, B = 2*E(3)^2 = -1-ER(-3) = -1-i3, C = 3*E(3)^2 = (-3-3*ER(-3))/2 = -3-3b3, D = -E(4) = -ER(-1) = -i, E = -E(12)^{11},F = -2*E(4) = -2*ER(-1) = -2i, G = -2*E(12)^{11},H = -3*E(4) = -3*ER(-1) = -3i, I = -3*E(12)^{11}.

The generators of G^{s98} are:

$$\begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -2 & 1 & 0 \\ 1 & -1 & 0 & 0 & 1 & -2 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 & -3 & 1 & 0 \\ 2 & -1 & 0 & 0 & 2 & -5 & 1 & 1 \\ 2 & 0 & 0 & -1 & 2 & -4 & 1 & 1 \\ 1 & 0 & 0 & -1 & 2 & -3 & 1 & 0 \\ 1 & 0 & -1 & 0 & 1 & -2 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -3 & 0 & -2 & 6 & -3 & 0 & 0 \\ 0 & -3 & 0 & -1 & 5 & -3 & 0 & 0 \\ 0 & -3 & 0 & 0 & 3 & -2 & 0 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s98} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 0 & -1 & 0 \\ -1 & -2 & 0 & 1 & 1 & -1 & 0 & -1 \\ -2 & -3 & 0 & 2 & 1 & -1 & -1 & 0 \\ -2 & -5 & 0 & 3 & 1 & -1 & -1 & -1 \\ -2 & -4 & 0 & 2 & 1 & 0 & -1 & -1 \\ -1 & -3 & 0 & 1 & 1 & 0 & -1 & 0 \\ -1 & -2 & 1 & 0 & 1 & 0 & -1 & 0 \\ 0 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 0 & -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & 1 & -2 & 2 & -1 & -1 & 0 \\ -1 & 1 & 1 & -3 & 4 & -2 & -1 & -1 \\ -1 & 1 & 1 & -2 & 3 & -2 & -1 & -1 \\ -1 & 0 & 1 & -1 & 2 & -2 & 0 & -1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & 0 & 1 \\ -1 & 2 & 1 & -1 & -1 & 1 & 0 & 1 \\ -2 & 2 & 1 & -1 & -1 & 1 & 1 & 1 \\ -3 & 3 & 2 & -2 & -1 & 2 & 0 & 2 \\ -3 & 2 & 2 & -1 & -1 & 1 & 0 & 2 \\ -2 & 1 & 1 & 0 & -1 & 1 & 0 & 1 \\ -2 & 1 & 1 & 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 2 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 & 2 & 0 & -1 \\ -2 & 1 & 0 & 0 & -1 & 3 & -1 & 0 \\ -2 & 1 & 0 & 0 & -2 & 5 & -1 & -1 \\ -2 & 0 & 0 & 1 & -2 & 4 & -1 & -1 \\ -1 & 0 & 0 & 1 & -2 & 3 & -1 & 0 \\ -1 & 0 & 1 & 0 & -1 & 2 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & 0 & 2 & -6 & 3 & 0 & 0 \\ 0 & 3 & 0 & 1 & -5 & 3 & 0 & 0 \\ 0 & 3 & 0 & 0 & -3 & 2 & 0 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & 0 & -1 & 1 & -1 & 0 \\ 0 & 2 & 0 & 0 & -1 & 1 & -1 & 0 \\ -1 & 3 & 1 & 0 & -2 & 1 & -1 & 0 \\ -1 & 4 & 1 & 0 & -2 & 1 & -1 & -1 \\ -1 & 4 & 1 & -1 & -1 & 1 & -1 & -1 \\ -1 & 3 & 1 & -1 & -1 & 1 & 0 & -1 \\ 0 & 2 & 1 & -1 & -1 & 1 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 1 & 1 & -2 & 1 & 0 \\ 0 & -1 & -1 & 1 & 1 & -2 & 1 & -1 \\ 0 & -1 & -1 & 1 & 2 & -4 & 2 & -1 \\ -1 & -2 & -1 & 2 & 2 & -5 & 3 & -2 \\ -1 & -1 & -1 & 1 & 2 & -4 & 3 & -2 \\ -1 & -1 & 0 & 0 & 2 & -3 & 2 & -1 \\ -1 & 0 & 0 & 0 & 1 & -2 & 1 & 0 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & -1 & 1 & 0 & 0 & -1 \\ 0 & -1 & 1 & -1 & 1 & -1 & 1 & -1 \\ -1 & -1 & 2 & -2 & 2 & -1 & 1 & -2 \\ -1 & -2 & 3 & -3 & 3 & -2 & 2 & -2 \\ -1 & -2 & 3 & -2 & 2 & -2 & 2 & -2 \\ -1 & -2 & 2 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 0 & 0 & -1 & 0 \\ 0 & -2 & 1 & 0 & 1 & -1 & -1 & 1 \\ 0 & -3 & 1 & 1 & 0 & 0 & -2 & 1 \\ 1 & -4 & 1 & 1 & 1 & -1 & -3 & 2 \\ 1 & -3 & 1 & 0 & 1 & 0 & -3 & 2 \\ 1 & -2 & 0 & 0 & 1 & 0 & -2 & 1 \\ 1 & -2 & 0 & 0 & 1 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 1 & -1 & 0 & 1 \\ 0 & -1 & -1 & 0 & 2 & -1 & -1 & 1 \\ 1 & -1 & -2 & 0 & 2 & -1 & -1 & 2 \\ 1 & -1 & -3 & 0 & 3 & -1 & -2 & 2 \\ 1 & -1 & -3 & 1 & 2 & -1 & -2 & 2 \\ 1 & -1 & -2 & 1 & 1 & -1 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 1 & 0 & -1 \\ 0 & 1 & 1 & 0 & -2 & 1 & 1 & -1 \\ -1 & 1 & 2 & 0 & -2 & 1 & 1 & -2 \\ -1 & 1 & 3 & 0 & -3 & 1 & 2 & -2 \\ -1 & 1 & 3 & -1 & -2 & 1 & 2 & -2 \\ -1 & 1 & 2 & -1 & -1 & 1 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 0 & 0 & 1 & 0 \\ 0 & 2 & -1 & 0 & -1 & 1 & 1 & -1 \\ 0 & 3 & -1 & -1 & 0 & 0 & 2 & -1 \\ -1 & 4 & -1 & -1 & -1 & 1 & 3 & -2 \\ -1 & 3 & -1 & 0 & -1 & 0 & 3 & -2 \\ -1 & 2 & 0 & 0 & -1 & 0 & 2 & -1 \\ -1 & 2 & 0 & 0 & -1 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & 1 & -1 & 1 & -1 & 1 & -1 & 1 \\ 1 & 1 & -2 & 2 & -2 & 1 & -1 & 2 \\ 1 & 2 & -3 & 3 & -3 & 2 & -2 & 2 \\ 1 & 2 & -3 & 2 & -2 & 2 & -2 & 2 \\ 1 & 2 & -2 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0&1&1&-1&-1&2&-1&0\\ 0&1&1&-1&-1&2&-1&1\\ 0&1&1&-1&-2&4&-2&1\\ 1&2&1&-2&-2&5&-3&2\\ 1&1&1&-1&-2&4&-3&2\\ 1&1&0&0&-2&3&-2&1\\ 1&0&0&0&-1&2&-1&0\\ 1&0&0&0&-1&1&0&0 \end{pmatrix}, \begin{pmatrix} 1&-1&-1&0&1&-1&1&0\\ 0&-2&0&0&1&-1&1&0\\ 1&-3&-1&0&2&-1&1&0\\ 1&-4&-1&0&2&-1&1&1\\ 1&-4&-1&1&1&-1&1&1\\ 1&-3&-1&1&1&-1&0&1\\ 0&-2&-1&1&1&-1&0&1\\ 0&-1&-1&1&0&0&0&0 \end{pmatrix}, \begin{pmatrix} 1&-1&0&-1&2&-1&0&0\\ 0&-1&0&-1&3&-2&0&0\\ 0&-2&1&-2&4&-2&0&0\\ 0&-3&0&-2&6&-3&0&0\\ 0&-3&0&-1&5&-3&0&0\\ 0&-3&0&0&3&-2&0&0\\ 0&-2&0&0&2&-2&1&0\\ 0&-1&0&0&1&-1&0&1 \end{pmatrix},$$

$$\begin{pmatrix} 1&-1&0&0&1&-2&1&0\\ 1&-1&0&0&1&-2&0&1\\ 2&-1&0&0&1&-3&1&0\\ 2&-1&0&0&2&-5&1&1\\ 2&0&0&-1&2&-4&1&1\\ 1&0&0&-1&2&-3&1&0\\ 1&0&-1&0&1&-2&1&0\\ 0&0&0&0&0&-1&1&0 \end{pmatrix}, \begin{pmatrix} 1&-1&0&0&1&-1&0&-1\\ 1&-2&-1&1&1&-1&0&-1\\ 2&-2&-1&1&1&-1&-1&-1\\ 3&-3&-2&2&1&-2&0&-2\\ 3&-2&-2&1&1&-1&0&-2\\ 2&-1&-1&0&1&-1&0&-1\\ 2&-1&-1&0&1&-1&0&0\\ 1&0&-1&0&1&-1&0&0 \end{pmatrix}, \begin{pmatrix} 1&0&-1&1&-1&0&1&0\\ 0&0&0&1&-2&1&1&0\\ 1&-1&-1&2&-2&1&1&0\\ 1&-1&-1&3&-4&2&1&1\\ 1&-1&-1&2&-3&2&1&1\\ 1&0&-1&1&-2&2&0&1\\ 0&0&-1&1&-1&1&0&1\\ 0&0&-1&1&-1&1&0&0 \end{pmatrix},$$

$$\begin{pmatrix} -1&-1&0&1&0&-1&0&1\\ -1&-1&1&0&1&-2&0&1\\ -2&-2&1&1&1&-3&1&1\\ -3&-3&2&1&2&-4&0&2\\ -3&-2&2&0&2&-3&0&2\\ -2&-2&1&0&2&-2&0&1\\ -2&-1&1&0&1&-1&0&0\\ -1&-1&1&0&0&0&0&0 \end{pmatrix}, \begin{pmatrix} 1&1&0&-1&0&0&1&0\\ 1&2&0&-1&-1&1&0&1\\ 2&3&0&-2&-1&1&1&0\\ 2&5&0&-3&-1&1&1&1\\ 2&4&0&-2&-1&0&1&1\\ 1&3&0&-1&-1&0&1&0\\ 1&2&-1&0&-1&0&1&0\\ 0&1&0&0&-1&0&1&0 \end{pmatrix}, \begin{pmatrix} 1&1&0&-1&0&1&0&-1\\ 1&1&-1&0&-1&2&0&-1\\ 2&2&-1&-1&-1&3&-1&-1\\ 3&3&-2&-1&-2&4&0&-2\\ 3&2&-2&0&-2&3&0&-2\\ 2&2&-1&0&-2&2&0&-1\\ 2&1&-1&0&-1&1&0&0\\ 1&1&-1&0&0&0&0&0 \end{pmatrix}.$$

The character table of G^{s98}:

									10										20					
$\chi_{98}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{98}^{(2)}$	1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	-1	1	1
$\chi_{98}^{(3)}$	1	1	-1	-1	-1	-1	1	1	1	-1	1	-1	1	-1	1	-1	-1	-1	1	1	1	1	-1	-1
$\chi_{98}^{(4)}$	1	-1	1	1	-1	-1	1	1	-1	1	-1	1	1	-1	1	-1	1	1	-1	-1	1	-1	-1	-1
$\chi_{98}^{(5)}$	1	A	1	-1	A	-A	-1	1	A	1	-A	-1	-1	-A	1	A	1	-1	-A	A	-1	-A	A	-A
$\chi_{98}^{(6)}$	1	-A	1	-1	-A	A	-1	1	-A	1	A	-1	-1	A	1	-A	1	-1	A	-A	-1	A	-A	A
$\chi_{98}^{(7)}$	1	B	1	/C	-/B	-B	-1	-/C	A	-C	-A	C	C	-A	-C	A	-/C	-1	-B	-/B	/C	/B	B	/B
$\chi_{98}^{(8)}$	1	-B	1	/C	/B	B	-1	-/C	-A	-C	A	C	C	A	-C	-A	-/C	-1	B	/B	/C	-/B	-B	-/B
$\chi_{98}^{(9)}$	1	-/B	1	C	B	/B	-1	-C	A	-/C	-A	/C	/C	-A	-/C	A	-C	-1	/B	B	C	-B	-/B	-B
$\chi_{98}^{(10)}$	1	/B	1	C	-B	-/B	-1	-C	-A	-/C	A	/C	/C	A	-/C	-A	-C	-1	-/B	-B	C	B	/B	B
$\chi_{98}^{(11)}$	1	C	-1	/C	-/C	-C	1	-/C	-1	C	-1	C	-C	1	-C	1	/C	-1	C	/C	-/C	/C	-C	-/C
$\chi_{98}^{(12)}$	1	/C	-1	C	-C	-/C	1	-C	-1	/C	-1	/C	-/C	1	-/C	1	C	-1	/C	C	-C	C	-/C	-C
$\chi_{98}^{(13)}$	1	-C	-1	/C	/C	C	1	-/C	1	C	1	C	-C	-1	-C	-1	/C	-1	-C	-/C	-/C	-/C	C	/C
$\chi_{98}^{(14)}$	1	-/C	-1	C	C	/C	1	-C	1	/C	1	/C	-/C	-1	-/C	-1	C	-1	-/C	-C	-C	-C	/C	C
$\chi_{98}^{(15)}$	1	A	-1	1	-A	A	-1	1	A	-1	-A	1	-1	A	1	-A	-1	1	-A	A	-1	-A	-A	A
$\chi_{98}^{(16)}$	1	-A	-1	1	A	-A	-1	1	-A	-1	A	1	-1	-A	1	A	-1	1	A	-A	-1	A	A	-A
$\chi_{98}^{(17)}$	1	B	-1	-/C	/B	B	-1	-/C	A	C	-A	-C	C	A	-C	-A	/C	1	-B	-/B	/C	/B	-B	-/B
$\chi_{98}^{(18)}$	1	-B	-1	-/C	-/B	-B	-1	-/C	-A	C	A	-C	C	-A	-C	A	/C	1	B	/B	/C	-/B	B	/B
$\chi_{98}^{(19)}$	1	-/B	-1	-C	-B	-/B	-1	-C	A	/C	-A	-/C	/C	A	-/C	-A	C	1	/B	B	C	-B	/B	B
$\chi_{98}^{(20)}$	1	/B	-1	-C	B	/B	-1	-C	-A	/C	A	-/C	/C	-A	-/C	A	C	1	-/B	-B	C	B	-/B	-B
$\chi_{98}^{(21)}$	1	C	1	-/C	/C	C	1	-/C	-1	-C	-1	-C	-C	-1	-C	-1	-/C	1	C	/C	-/C	/C	C	/C
$\chi_{98}^{(22)}$	1	/C	1	-C	C	/C	1	-C	-1	-/C	-1	-/C	-/C	-1	-/C	-1	-C	1	/C	C	-C	C	/C	C
$\chi_{98}^{(23)}$	1	-C	1	-/C	-/C	-C	1	-/C	1	-C	1	-C	-C	1	-C	1	-/C	1	-C	-/C	-/C	-/C	-C	-/C
$\chi_{98}^{(24)}$	1	-/C	1	-C	-C	-/C	1	-C	1	-/C	1	-/C	-/C	1	-/C	1	-C	1	-/C	-C	-C	-C	-/C	-C

where A = -E(4) = -ER(-1) = -i, B = -E(12)^7,C = -E(3) = (1-ER(-3))/2 = -b3.

The generators of $G^{s_{99}}$ are:

$$\begin{pmatrix} 0 & 0 & 1 & -2 & 2 & 0 & -1 & 1 \\ 0 & -1 & 1 & -2 & 3 & 0 & -2 & 1 \\ 0 & 0 & 2 & -4 & 4 & 0 & -2 & 1 \\ 0 & 0 & 2 & -5 & 6 & 0 & -4 & 2 \\ 0 & 0 & 1 & -4 & 5 & 0 & -3 & 2 \\ 1 & 0 & 0 & -3 & 4 & 0 & -2 & 1 \\ 1 & 0 & 0 & -2 & 3 & -1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 1 & -1 & 0 \\ 0 & 1 & 1 & -1 & -1 & 1 & -1 & 0 \\ 0 & 0 & 1 & 0 & -2 & 2 & -2 & 0 \\ 0 & 0 & 2 & -1 & -2 & 2 & -2 & 0 \\ 0 & 0 & 2 & -1 & -2 & 2 & -1 & -1 \\ 0 & 0 & 2 & -1 & -1 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 2 & -1 & -1 & 1 & 0 & 0 \\ -2 & -1 & 2 & 0 & -2 & 2 & 0 & 0 \\ -2 & 0 & 3 & -1 & -3 & 3 & 0 & 0 \\ -4 & 0 & 4 & -1 & -4 & 4 & 0 & 0 \\ -3 & 0 & 3 & -1 & -3 & 3 & 1 & -1 \\ -3 & 0 & 3 & -1 & -2 & 2 & 1 & -1 \\ -2 & 0 & 2 & -1 & -1 & 1 & 1 & 0 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{99}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & -1 & 2 & -1 & 0 & 0 \\ -3 & 1 & 2 & -2 & 2 & -1 & 0 & 1 \\ -4 & 0 & 2 & -2 & 3 & -1 & 0 & 1 \\ -6 & 0 & 4 & -3 & 4 & -2 & 0 & 2 \\ -5 & 0 & 3 & -2 & 3 & -2 & 0 & 2 \\ -4 & 0 & 2 & -1 & 2 & -2 & 1 & 1 \\ -3 & 0 & 1 & 0 & 1 & -1 & 0 & 1 \\ -2 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 1 & -1 & -1 & 1 \\ -3 & -1 & 2 & 0 & 1 & -1 & -1 & 2 \\ -4 & 0 & 2 & 0 & 1 & -1 & -2 & 3 \\ -6 & 0 & 4 & -1 & 2 & -2 & -2 & 4 \\ -5 & 0 & 4 & -1 & 1 & -1 & -2 & 3 \\ -4 & 0 & 3 & 0 & 0 & -1 & -1 & 2 \\ -3 & 0 & 2 & 0 & 0 & 0 & -1 & 1 \\ -2 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 0 & 1 & 0 & 1 & -1 & -1 & 1 \\ -3 & 1 & 2 & -1 & 1 & -1 & -1 & 2 \\ -4 & 0 & 2 & 0 & 1 & -1 & -2 & 3 \\ -6 & 0 & 4 & -1 & 2 & -2 & -2 & 4 \\ -5 & 0 & 4 & -1 & 1 & -1 & -2 & 3 \\ -4 & 0 & 3 & 0 & 0 & -1 & -1 & 2 \\ -3 & 0 & 2 & 0 & 0 & 0 & -1 & 1 \\ -2 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 2 & -1 & 1 & 0 & -1 & 0 \\ -3 & -1 & 3 & -1 & 1 & 0 & -1 & 1 \\ -4 & 0 & 4 & -2 & 1 & 1 & -2 & 1 \\ -6 & 0 & 6 & -3 & 2 & 0 & -2 & 2 \\ -5 & 0 & 5 & -3 & 2 & 0 & -1 & 1 \\ -4 & 0 & 4 & -2 & 1 & 0 & 0 & 0 \\ -3 & 0 & 2 & -1 & 1 & 0 & 0 & 0 \\ -2 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 2 & -1 & 1 & 0 & -1 & 0 \\ -3 & 1 & 3 & -2 & 1 & 0 & -1 & 1 \\ -4 & 0 & 4 & -2 & 1 & 1 & -2 & 1 \\ -6 & 0 & 6 & -3 & 2 & 0 & -2 & 2 \\ -5 & 0 & 5 & -3 & 2 & 0 & -1 & 1 \\ -4 & 0 & 4 & -2 & 1 & 0 & 0 & 0 \\ -3 & 0 & 2 & -1 & 1 & 0 & 0 & 0 \\ -2 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & -1 & 2 & 0 & -1 & 1 \\ -2 & -1 & 1 & -1 & 2 & 0 & -1 & 2 \\ -3 & 0 & 1 & -2 & 3 & 0 & -1 & 2 \\ -4 & 0 & 2 & -3 & 4 & 0 & -2 & 4 \\ -3 & 0 & 1 & -2 & 3 & 0 & -2 & 4 \\ -2 & 0 & 0 & -1 & 2 & 0 & -1 & 3 \\ -2 & 0 & 0 & 0 & 1 & 0 & -1 & 2 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & -1 & 2 & 0 & -1 & 1 \\ -2 & 1 & 1 & -2 & 2 & 0 & -1 & 2 \\ -3 & 0 & 1 & -2 & 3 & 0 & -1 & 2 \\ -4 & 0 & 2 & -3 & 4 & 0 & -2 & 4 \\ -3 & 0 & 1 & -2 & 3 & 0 & -2 & 4 \\ -2 & 0 & 0 & -1 & 2 & 0 & -1 & 3 \\ -2 & 0 & 0 & 0 & 1 & 0 & -1 & 2 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 1 & 0 & -2 & 2 \\ -2 & -1 & 1 & 0 & 1 & 0 & -2 & 3 \\ -3 & 0 & 1 & 0 & 1 & 0 & -3 & 4 \\ -4 & 0 & 2 & -1 & 2 & 0 & -4 & 6 \\ -3 & 0 & 2 & -1 & 1 & 1 & -4 & 5 \\ -2 & 0 & 1 & 0 & 0 & 1 & -3 & 4 \\ -2 & 0 & 1 & 0 & 0 & 1 & -2 & 2 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 1 & 0 & -2 & 2 \\ -2 & 1 & 1 & -1 & 1 & 0 & -2 & 3 \\ -3 & 0 & 1 & 0 & 1 & 0 & -3 & 4 \\ -4 & 0 & 2 & -1 & 2 & 0 & -4 & 6 \\ -3 & 0 & 2 & -1 & 1 & 1 & -4 & 5 \\ -2 & 0 & 1 & 0 & 0 & 1 & -3 & 4 \\ -2 & 0 & 1 & 0 & 0 & 1 & -2 & 2 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \\ -2 & -1 & 1 & 0 & -1 & 1 & 1 & 0 \\ -2 & 0 & 1 & -1 & -1 & 1 & 2 & 0 \\ -4 & 0 & 2 & -1 & -2 & 2 & 2 & 0 \\ -3 & 0 & 1 & 0 & -2 & 1 & 2 & 0 \\ -3 & 0 & 1 & 0 & -1 & 0 & 2 & 0 \\ -2 & 0 & 1 & 0 & -1 & 0 & 1 & 1 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \\ -2 & 1 & 1 & -1 & -1 & 1 & 1 & 0 \\ -2 & 0 & 1 & -1 & -1 & 1 & 2 & 0 \\ -4 & 0 & 2 & -1 & -2 & 2 & 2 & 0 \\ -3 & 0 & 1 & 0 & -2 & 1 & 2 & 0 \\ -3 & 0 & 1 & 0 & -1 & 0 & 2 & 0 \\ -2 & 0 & 1 & 0 & -1 & 0 & 1 & 1 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 1 & 0 & -1 \\ 0 & -1 & 1 & -1 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -2 & 0 & 2 & 0 & -2 \\ 0 & 0 & 2 & -3 & 0 & 2 & 0 & -2 \\ 0 & 0 & 1 & -2 & 0 & 1 & 1 & -2 \\ 0 & 0 & 1 & -2 & 1 & 0 & 1 & -2 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 1 & 0 & -1 \\ 0 & 1 & 1 & -2 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -2 & 0 & 2 & 0 & -2 \\ 0 & 0 & 2 & -3 & 0 & 2 & 0 & -2 \\ 0 & 0 & 1 & -2 & 0 & 1 & 1 & -2 \\ 0 & 0 & 1 & -2 & 1 & 0 & 1 & -2 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 1 & 1 & -2 & 1 \\ -2 & -1 & 2 & -1 & 1 & 1 & -2 & 2 \\ -3 & 0 & 3 & -2 & 1 & 2 & -3 & 2 \\ -4 & 0 & 4 & -3 & 2 & 2 & -4 & 4 \\ -3 & 0 & 3 & -3 & 2 & 2 & -3 & 3 \\ -2 & 0 & 2 & -2 & 1 & 2 & -2 & 2 \\ -2 & 0 & 1 & -1 & 1 & 1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 1 & 1 & -2 & 1 \\ -2 & 1 & 2 & -2 & 1 & 1 & -2 & 2 \\ -3 & 0 & 3 & -2 & 1 & 2 & -3 & 2 \\ -4 & 0 & 4 & -3 & 2 & 2 & -4 & 4 \\ -3 & 0 & 3 & -3 & 2 & 2 & -3 & 3 \\ -2 & 0 & 2 & -2 & 1 & 2 & -2 & 2 \\ -2 & 0 & 1 & -1 & 1 & 1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & -1 & 2 & -2 & 0 & 1 \\ -1 & -1 & 1 & -1 & 3 & -2 & -1 & 1 \\ -1 & 0 & 1 & -2 & 4 & -3 & -1 & 2 \\ -2 & 0 & 2 & -3 & 6 & -4 & -2 & 2 \\ -2 & 0 & 2 & -2 & 4 & -3 & -2 & 2 \\ -1 & 0 & 1 & -1 & 3 & -3 & -1 & 1 \\ 0 & 0 & 1 & -1 & 2 & -2 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 2 & -2 & 0 & 1 \\ -1 & 1 & 1 & -2 & 3 & -2 & -1 & 1 \\ -1 & 0 & 1 & -2 & 4 & -3 & -1 & 2 \\ -2 & 0 & 2 & -3 & 6 & -4 & -2 & 2 \\ -2 & 0 & 2 & -2 & 4 & -3 & -2 & 2 \\ -1 & 0 & 1 & -1 & 3 & -3 & -1 & 1 \\ 0 & 0 & 1 & -1 & 2 & -2 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \\ -2 & -1 & 1 & 1 & -2 & 1 & 0 & 1 \\ -2 & 0 & 1 & 1 & -3 & 1 & 0 & 2 \\ -4 & 0 & 2 & 1 & -4 & 2 & 0 & 2 \\ -3 & 0 & 2 & 1 & -4 & 2 & 0 & 1 \\ -3 & 0 & 2 & 1 & -3 & 1 & 0 & 1 \\ -2 & 0 & 2 & 0 & -2 & 1 & 0 & 1 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \\ -2 & 1 & 1 & 0 & -2 & 1 & 0 & 1 \\ -2 & 0 & 1 & 1 & -3 & 1 & 0 & 2 \\ -4 & 0 & 2 & 1 & -4 & 2 & 0 & 2 \\ -3 & 0 & 2 & 1 & -4 & 2 & 0 & 1 \\ -3 & 0 & 2 & 1 & -3 & 1 & 0 & 1 \\ -2 & 0 & 2 & 0 & -2 & 1 & 0 & 1 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & -1 & 1 & -1 & 0 \\ 0 & 0 & 1 & 0 & -2 & 2 & -2 & 0 \\ 0 & 0 & 2 & -1 & -2 & 2 & -2 & 0 \\ 0 & 0 & 2 & -1 & -2 & 2 & -1 & -1 \\ 0 & 0 & 2 & -1 & -1 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 1 & -1 & 0 \\ 0 & 1 & 1 & -1 & -1 & 1 & -1 & 0 \\ 0 & 0 & 1 & 0 & -2 & 2 & -2 & 0 \\ 0 & 0 & 2 & -1 & -2 & 2 & -2 & 0 \\ 0 & 0 & 2 & -1 & -2 & 2 & -1 & -1 \\ 0 & 0 & 2 & -1 & -1 & 1 & -1 & -1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 2 & -2 & 2 & -1 & 0 & 0 \\ -1 & -1 & 2 & -2 & 3 & -1 & -1 & 0 \\ -1 & 0 & 3 & -4 & 4 & -1 & -1 & 0 \\ -2 & 0 & 4 & -5 & 6 & -2 & -2 & 0 \\ -2 & 0 & 3 & -4 & 5 & -2 & -1 & 0 \\ -1 & 0 & 2 & -3 & 4 & -2 & 0 & -1 \\ 0 & 0 & 1 & -2 & 3 & -2 & 0 & 0 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -2 & 2 & -1 & 0 & 0 \\ -1 & 1 & 2 & -3 & 3 & -1 & -1 & 0 \\ -1 & 0 & 3 & -4 & 4 & -1 & -1 & 0 \\ -2 & 0 & 4 & -5 & 6 & -2 & -2 & 0 \\ -2 & 0 & 3 & -4 & 5 & -2 & -1 & 0 \\ -1 & 0 & 2 & -3 & 4 & -2 & 0 & -1 \\ 0 & 0 & 1 & -2 & 3 & -2 & 0 & 0 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & -1 & 1 & 0 & 0 \\ -2 & -1 & 2 & 0 & -2 & 2 & 0 & 0 \\ -2 & 0 & 3 & -1 & -3 & 3 & 0 & 0 \\ -4 & 0 & 4 & -1 & -4 & 4 & 0 & 0 \\ -3 & 0 & 3 & -1 & -3 & 3 & 1 & -1 \\ -3 & 0 & 3 & -1 & -2 & 2 & 1 & -1 \\ -2 & 0 & 2 & -1 & -1 & 1 & 1 & 0 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 2 & -1 & -1 & 1 & 0 & 0 \\ -2 & 1 & 2 & -1 & -2 & 2 & 0 & 0 \\ -2 & 0 & 3 & -1 & -3 & 3 & 0 & 0 \\ -4 & 0 & 4 & -1 & -4 & 4 & 0 & 0 \\ -3 & 0 & 3 & -1 & -3 & 3 & 1 & -1 \\ -3 & 0 & 3 & -1 & -2 & 2 & 1 & -1 \\ -2 & 0 & 2 & -1 & -1 & 1 & 1 & 0 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 1 & -1 & -1 & 1 \\ -1 & -1 & 2 & -1 & 2 & -1 & -2 & 1 \\ -1 & 0 & 3 & -2 & 2 & -1 & -3 & 2 \\ -2 & 0 & 4 & -3 & 4 & -2 & -4 & 2 \\ -2 & 0 & 4 & -3 & 3 & -1 & -3 & 1 \\ -1 & 0 & 3 & -2 & 2 & -1 & -2 & 0 \\ 0 & 0 & 2 & -2 & 2 & -1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 2 & -2 & 2 & -1 & -2 & 1 \\ -1 & 0 & 3 & -2 & 2 & -1 & -3 & 2 \\ -2 & 0 & 4 & -3 & 4 & -2 & -4 & 2 \\ -2 & 0 & 4 & -3 & 3 & -1 & -3 & 1 \\ -1 & 0 & 3 & -2 & 2 & -1 & -2 & 0 \\ 0 & 0 & 2 & -2 & 2 & -1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & -1 & 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & -2 & 0 & 0 & 1 & -1 & 1 \\ 2 & 0 & -2 & -1 & 0 & 2 & -2 & 2 \\ 2 & 0 & -2 & 0 & -1 & 2 & -2 & 2 \\ 2 & 0 & -2 & 0 & 0 & 1 & -2 & 2 \\ 1 & 0 & -1 & 0 & 0 & 1 & -2 & 1 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & -1 & -1 & 0 & 1 & -1 & 1 \\ 1 & 0 & -2 & 0 & 0 & 1 & -1 & 1 \\ 2 & 0 & -2 & -1 & 0 & 2 & -2 & 2 \\ 2 & 0 & -2 & 0 & -1 & 2 & -2 & 2 \\ 2 & 0 & -2 & 0 & 0 & 1 & -2 & 2 \\ 1 & 0 & -1 & 0 & 0 & 1 & -2 & 1 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & -1 & 0 & 2 & -2 \\ 0 & -1 & -1 & 2 & -2 & 0 & 3 & -2 \\ 0 & 0 & -2 & 2 & -2 & 0 & 4 & -3 \\ 0 & 0 & -2 & 3 & -4 & 0 & 6 & -4 \\ 0 & 0 & -2 & 3 & -3 & -1 & 5 & -3 \\ -1 & 0 & -1 & 2 & -2 & -1 & 4 & -2 \\ -1 & 0 & -1 & 2 & -2 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 1 & -1 & 0 & 2 & -2 \\ 0 & 1 & -1 & 1 & -2 & 0 & 3 & -2 \\ 0 & 0 & -2 & 2 & -2 & 0 & 4 & -3 \\ 0 & 0 & -2 & 3 & -4 & 0 & 6 & -4 \\ 0 & 0 & -2 & 3 & -3 & -1 & 5 & -3 \\ -1 & 0 & -1 & 2 & -2 & -1 & 4 & -2 \\ -1 & 0 & -1 & 2 & -2 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & 1 & -2 & 1 & -1 \\ 1 & -1 & -1 & 1 & 2 & -3 & 1 & -1 \\ 1 & 0 & -2 & 1 & 3 & -4 & 1 & -1 \\ 2 & 0 & -2 & 1 & 4 & -6 & 2 & -2 \\ 1 & 0 & -1 & 1 & 3 & -5 & 1 & -1 \\ 1 & 0 & -1 & 1 & 2 & -4 & 1 & -1 \\ 1 & 0 & -1 & 1 & 1 & -2 & 0 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & 1 & -2 & 1 & -1 \\ 1 & 1 & -1 & 0 & 2 & -3 & 1 & -1 \\ 1 & 0 & -2 & 1 & 3 & -4 & 1 & -1 \\ 2 & 0 & -2 & 1 & 4 & -6 & 2 & -2 \\ 1 & 0 & -1 & 1 & 3 & -5 & 1 & -1 \\ 1 & 0 & -1 & 1 & 2 & -4 & 1 & -1 \\ 1 & 0 & -1 & 1 & 1 & -2 & 0 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 0 & 1 & -1 \\ 0 & -1 & -1 & 3 & -3 & 0 & 2 & -1 \\ 0 & 0 & -2 & 4 & -4 & 0 & 2 & -1 \\ 0 & 0 & -2 & 5 & -6 & 0 & 4 & -2 \\ 0 & 0 & -1 & 4 & -5 & 0 & 3 & -2 \\ -1 & 0 & 0 & 3 & -4 & 0 & 2 & -1 \\ -1 & 0 & 0 & 2 & -3 & 1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 0 & 1 & -1 \\ 0 & 1 & -1 & 2 & -3 & 0 & 2 & -1 \\ 0 & 0 & -2 & 4 & -4 & 0 & 2 & -1 \\ 0 & 0 & -2 & 5 & -6 & 0 & 4 & -2 \\ 0 & 0 & -1 & 4 & -5 & 0 & 3 & -2 \\ -1 & 0 & 0 & 3 & -4 & 0 & 2 & -1 \\ -1 & 0 & 0 & 2 & -3 & 1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 0 & 1 & 0 & 1 \\ -1 & -1 & 0 & 0 & -1 & 2 & 0 & 1 \\ -1 & 0 & 0 & -1 & -1 & 2 & 1 & 1 \\ -2 & 0 & 0 & -1 & -2 & 4 & 0 & 2 \\ -1 & 0 & -1 & 0 & -2 & 3 & 0 & 2 \\ -1 & 0 & -1 & 0 & -1 & 2 & 0 & 2 \\ -1 & 0 & 0 & 0 & -1 & 1 & 0 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & -1 & 0 & 1 & 0 & 1 \\ -1 & 1 & 0 & -1 & -1 & 2 & 0 & 1 \\ -1 & 0 & 0 & -1 & -1 & 2 & 1 & 1 \\ -2 & 0 & 0 & -1 & -2 & 4 & 0 & 2 \\ -1 & 0 & -1 & 0 & -2 & 3 & 0 & 2 \\ -1 & 0 & -1 & 0 & -1 & 2 & 0 & 2 \\ -1 & 0 & 0 & 0 & -1 & 1 & 0 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 0 & 2 & -1 & 0 \\ 1 & -1 & 0 & -1 & 0 & 2 & -1 & 0 \\ 1 & 0 & 0 & -2 & 0 & 3 & -1 & -1 \\ 2 & 0 & 0 & -3 & 0 & 4 & -2 & 0 \\ 2 & 0 & -1 & -2 & 0 & 3 & -1 & 0 \\ 2 & 0 & -1 & -2 & 1 & 2 & -1 & 0 \\ 1 & 0 & -1 & -1 & 1 & 1 & -1 & 0 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 0 & 2 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 & 2 & -1 & 0 \\ 1 & 0 & 0 & -2 & 0 & 3 & -1 & -1 \\ 2 & 0 & 0 & -3 & 0 & 4 & -2 & 0 \\ 2 & 0 & -1 & -2 & 0 & 3 & -1 & 0 \\ 2 & 0 & -1 & -2 & 1 & 2 & -1 & 0 \\ 1 & 0 & -1 & -1 & 1 & 1 & -1 & 0 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -1 & -1 & 2 \\ 0 & -1 & 0 & -1 & 3 & -1 & -2 & 2 \\ 0 & 0 & 0 & -2 & 4 & -2 & -2 & 3 \\ 0 & 0 & 0 & -3 & 6 & -2 & -4 & 4 \\ 0 & 0 & 0 & -2 & 4 & -1 & -4 & 4 \\ 1 & 0 & -1 & -1 & 3 & -1 & -3 & 3 \\ 1 & 0 & 0 & -1 & 2 & -1 & -2 & 2 \\ 1 & 0 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -1 & -1 & 2 \\ 0 & 1 & 0 & -2 & 3 & -1 & -2 & 2 \\ 0 & 0 & 0 & -2 & 4 & -2 & -2 & 3 \\ 0 & 0 & 0 & -3 & 6 & -2 & -4 & 4 \\ 0 & 0 & 0 & -2 & 4 & -1 & -4 & 4 \\ 1 & 0 & -1 & -1 & 3 & -1 & -3 & 3 \\ 1 & 0 & 0 & -1 & 2 & -1 & -2 & 2 \\ 1 & 0 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 1 & -1 & 2 \\ -1 & -1 & 0 & 1 & -2 & 2 & -1 & 2 \\ -1 & 0 & 0 & 1 & -3 & 2 & -1 & 3 \\ -2 & 0 & 0 & 1 & -4 & 4 & -2 & 4 \\ -1 & 0 & 0 & 1 & -4 & 4 & -2 & 3 \\ -1 & 0 & 0 & 1 & -3 & 3 & -2 & 3 \\ -1 & 0 & 1 & 0 & -2 & 2 & -1 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 1 & -1 & 2 \\ -1 & 1 & 0 & 0 & -2 & 2 & -1 & 2 \\ -1 & 0 & 0 & 1 & -3 & 2 & -1 & 3 \\ -2 & 0 & 0 & 1 & -4 & 4 & -2 & 4 \\ -1 & 0 & 0 & 1 & -4 & 4 & -2 & 3 \\ -1 & 0 & 0 & 1 & -3 & 3 & -2 & 3 \\ -1 & 0 & 1 & 0 & -2 & 2 & -1 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 2 & -2 & 1 \\ 1 & -1 & 0 & 0 & -1 & 2 & -2 & 1 \\ 1 & 0 & 0 & 0 & -2 & 3 & -3 & 1 \\ 2 & 0 & 0 & -1 & -2 & 4 & -4 & 2 \\ 2 & 0 & 0 & -1 & -2 & 4 & -3 & 1 \\ 2 & 0 & 0 & -1 & -1 & 3 & -3 & 1 \\ 1 & 0 & 0 & -1 & 0 & 2 & -2 & 0 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 2 & -2 & 1 \\ 1 & 1 & 0 & -1 & -1 & 2 & -2 & 1 \\ 1 & 0 & 0 & 0 & -2 & 3 & -3 & 1 \\ 2 & 0 & 0 & -1 & -2 & 4 & -4 & 2 \\ 2 & 0 & 0 & -1 & -2 & 4 & -3 & 1 \\ 2 & 0 & 0 & -1 & -1 & 3 & -3 & 1 \\ 1 & 0 & 0 & -1 & 0 & 2 & -2 & 0 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 0 & 1 & -2 & 2 & -1 \\ -1 & -1 & 0 & 1 & 1 & -2 & 2 & -1 \\ -1 & 0 & 0 & 0 & 2 & -3 & 3 & -1 \\ -2 & 0 & 0 & 1 & 2 & -4 & 4 & -2 \\ -2 & 0 & 0 & 1 & 2 & -4 & 3 & -1 \\ -2 & 0 & 0 & 1 & 1 & -3 & 3 & -1 \\ -1 & 0 & 0 & 1 & 0 & -2 & 2 & 0 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 1 & -2 & 2 & -1 \\ -1 & 1 & 0 & 0 & 1 & -2 & 2 & -1 \\ -1 & 0 & 0 & 0 & 2 & -3 & 3 & -1 \\ -2 & 0 & 0 & 1 & 2 & -4 & 4 & -2 \\ -2 & 0 & 0 & 1 & 2 & -4 & 3 & -1 \\ -2 & 0 & 0 & 1 & 1 & -3 & 3 & -1 \\ -1 & 0 & 0 & 1 & 0 & -2 & 2 & 0 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 1 & -1 & 1 & -2 \\ 1 & -1 & 0 & 0 & 2 & -2 & 1 & -2 \\ 1 & 0 & 0 & -1 & 3 & -2 & 1 & -3 \\ 2 & 0 & 0 & -1 & 4 & -4 & 2 & -4 \\ 1 & 0 & 0 & -1 & 4 & -4 & 2 & -3 \\ 1 & 0 & 0 & -1 & 3 & -3 & 2 & -3 \\ 1 & 0 & -1 & 0 & 2 & -2 & 1 & -2 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 0 & 1 & -1 & 1 & -2 \\ 1 & 1 & 0 & -1 & 2 & -2 & 1 & -2 \\ 1 & 0 & 0 & -1 & 3 & -2 & 1 & -3 \\ 2 & 0 & 0 & -1 & 4 & -4 & 2 & -4 \\ 1 & 0 & 0 & -1 & 4 & -4 & 2 & -3 \\ 1 & 0 & 0 & -1 & 3 & -3 & 2 & -3 \\ 1 & 0 & -1 & 0 & 2 & -2 & 1 & -2 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 1 & 1 & -2 \\ 0 & -1 & 0 & 2 & -3 & 1 & 2 & -2 \\ 0 & 0 & 0 & 2 & -4 & 2 & 2 & -3 \\ 0 & 0 & 0 & 3 & -6 & 2 & 4 & -4 \\ 0 & 0 & 0 & 2 & -4 & 1 & 4 & -4 \\ -1 & 0 & 1 & 1 & -3 & 1 & 3 & -3 \\ -1 & 0 & 0 & 1 & -2 & 1 & 2 & -2 \\ -1 & 0 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 1 & 1 & -2 \\ 0 & 1 & 0 & 1 & -3 & 1 & 2 & -2 \\ 0 & 0 & 0 & 2 & -4 & 2 & 2 & -3 \\ 0 & 0 & 0 & 3 & -6 & 2 & 4 & -4 \\ 0 & 0 & 0 & 2 & -4 & 1 & 4 & -4 \\ -1 & 0 & 1 & 1 & -3 & 1 & 3 & -3 \\ -1 & 0 & 0 & 1 & -2 & 1 & 2 & -2 \\ -1 & 0 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 1 & 0 & -2 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 & -2 & 1 & 0 \\ -1 & 0 & 0 & 2 & 0 & -3 & 1 & 1 \\ -2 & 0 & 0 & 3 & 0 & -4 & 2 & 0 \\ -2 & 0 & 1 & 2 & 0 & -3 & 1 & 0 \\ -2 & 0 & 1 & 2 & -1 & -2 & 1 & 0 \\ -1 & 0 & 1 & 1 & -1 & -1 & 1 & 0 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & 0 & -2 & 1 & 0 \\ -1 & 1 & 0 & 1 & 0 & -2 & 1 & 0 \\ -1 & 0 & 0 & 2 & 0 & -3 & 1 & 1 \\ -2 & 0 & 0 & 3 & 0 & -4 & 2 & 0 \\ -2 & 0 & 1 & 2 & 0 & -3 & 1 & 0 \\ -2 & 0 & 1 & 2 & -1 & -2 & 1 & 0 \\ -1 & 0 & 1 & 1 & -1 & -1 & 1 & 0 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & 0 & -1 & 0 & -1 \\ 1 & -1 & 0 & 1 & 1 & -2 & 0 & -1 \\ 1 & 0 & 0 & 1 & 1 & -2 & -1 & -1 \\ 2 & 0 & 0 & 1 & 2 & -4 & 0 & -2 \\ 1 & 0 & 1 & 0 & 2 & -3 & 0 & -2 \\ 1 & 0 & 1 & 0 & 1 & -2 & 0 & -2 \\ 1 & 0 & 0 & 0 & 1 & -1 & 0 & -2 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 1 & 0 & -1 & 0 & -1 \\ 1 & 1 & 0 & 0 & 1 & -2 & 0 & -1 \\ 1 & 0 & 0 & 1 & 1 & -2 & -1 & -1 \\ 2 & 0 & 0 & 1 & 2 & -4 & 0 & -2 \\ 1 & 0 & 1 & 0 & 2 & -3 & 0 & -2 \\ 1 & 0 & 1 & 0 & 1 & -2 & 0 & -2 \\ 1 & 0 & 0 & 0 & 1 & -1 & 0 & -2 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -2 & 2 & 0 & -1 & 1 \\ 0 & -1 & 1 & -2 & 3 & 0 & -2 & 1 \\ 0 & 0 & 2 & -4 & 4 & 0 & -2 & 1 \\ 0 & 0 & 2 & -5 & 6 & 0 & -4 & 2 \\ 0 & 0 & 1 & -4 & 5 & 0 & -3 & 2 \\ 1 & 0 & 0 & -3 & 4 & 0 & -2 & 1 \\ 1 & 0 & 0 & -2 & 3 & -1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -2 & 2 & 0 & -1 & 1 \\ 0 & 1 & 1 & -3 & 3 & 0 & -2 & 1 \\ 0 & 0 & 2 & -4 & 4 & 0 & -2 & 1 \\ 0 & 0 & 2 & -5 & 6 & 0 & -4 & 2 \\ 0 & 0 & 1 & -4 & 5 & 0 & -3 & 2 \\ 1 & 0 & 0 & -3 & 4 & 0 & -2 & 1 \\ 1 & 0 & 0 & -2 & 3 & -1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & -1 & -1 & 2 & -1 & 1 \\ -1 & -1 & 1 & 0 & -2 & 3 & -1 & 1 \\ -1 & 0 & 2 & -1 & -3 & 4 & -1 & 1 \\ -2 & 0 & 2 & -1 & -4 & 6 & -2 & 2 \\ -1 & 0 & 1 & -1 & -3 & 5 & -1 & 1 \\ -1 & 0 & 1 & -1 & -2 & 4 & -1 & 1 \\ -1 & 0 & 1 & -1 & -1 & 2 & 0 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -1 & -1 & 2 & -1 & 1 \\ -1 & 1 & 1 & -1 & -2 & 3 & -1 & 1 \\ -1 & 0 & 2 & -1 & -3 & 4 & -1 & 1 \\ -2 & 0 & 2 & -1 & -4 & 6 & -2 & 2 \\ -1 & 0 & 1 & -1 & -3 & 5 & -1 & 1 \\ -1 & 0 & 1 & -1 & -2 & 4 & -1 & 1 \\ -1 & 0 & 1 & -1 & -1 & 2 & 0 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -1 & 1 & 0 & -2 & 2 \\ 0 & -1 & 1 & -1 & 2 & 0 & -3 & 2 \\ 0 & 0 & 2 & -2 & 2 & 0 & -4 & 3 \\ 0 & 0 & 2 & -3 & 4 & 0 & -6 & 4 \\ 0 & 0 & 2 & -3 & 3 & 1 & -5 & 3 \\ 1 & 0 & 1 & -2 & 2 & 1 & -4 & 2 \\ 1 & 0 & 1 & -2 & 2 & 0 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 1 & -2 & 2 & 0 & -3 & 2 \\ 0 & 0 & 2 & -2 & 2 & 0 & -4 & 3 \\ 0 & 0 & 2 & -3 & 4 & 0 & -6 & 4 \\ 0 & 0 & 2 & -3 & 3 & 1 & -5 & 3 \\ 1 & 0 & 1 & -2 & 2 & 1 & -4 & 2 \\ 1 & 0 & 1 & -2 & 2 & 0 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \\ -1 & -1 & 1 & 1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 2 & 0 & 0 & -1 & 1 & -1 \\ -2 & 0 & 2 & 1 & 0 & -2 & 2 & -2 \\ -2 & 0 & 2 & 0 & 1 & -2 & 2 & -2 \\ -2 & 0 & 2 & 0 & 0 & -1 & 2 & -2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 2 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \\ -1 & 1 & 1 & 0 & 0 & -1 & 1 & -1 \\ -1 & 0 & 2 & 0 & 0 & -1 & 1 & -1 \\ -2 & 0 & 2 & 1 & 0 & -2 & 2 & -2 \\ -2 & 0 & 2 & 1 & 0 & -2 & 2 & -2 \\ -2 & 0 & 2 & 0 & 0 & -1 & 2 & -2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 2 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -2 & 1 & -1 & 1 & 1 & -1 \\ 1 & -1 & -2 & 2 & -2 & 1 & 2 & -1 \\ 1 & 0 & -3 & 2 & -2 & 1 & 3 & -2 \\ 2 & 0 & -4 & 3 & -4 & 2 & 4 & -2 \\ 2 & 0 & -4 & 3 & -3 & 1 & 3 & -1 \\ 1 & 0 & -3 & 2 & -2 & 1 & 2 & 0 \\ 0 & 0 & -2 & 2 & -2 & 1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -2 & 1 & -1 & 1 & 1 & -1 \\ 1 & 1 & -2 & 1 & -2 & 1 & 2 & -1 \\ 1 & 0 & -3 & 2 & -2 & 1 & 3 & -2 \\ 2 & 0 & -4 & 3 & -4 & 2 & 4 & -2 \\ 2 & 0 & -4 & 3 & -3 & 1 & 3 & -1 \\ 1 & 0 & -3 & 2 & -2 & 1 & 2 & 0 \\ 0 & 0 & -2 & 2 & -2 & 1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -2 & 1 & 1 & -1 & 0 & 0 \\ 2 & -1 & -2 & 1 & 2 & -2 & 0 & 0 \\ 2 & 0 & -3 & 1 & 3 & -3 & 0 & 0 \\ 4 & 0 & -4 & 1 & 4 & -4 & 0 & 0 \\ 3 & 0 & -3 & 1 & 3 & -3 & -1 & 1 \\ 3 & 0 & -3 & 1 & 2 & -2 & -1 & 1 \\ 2 & 0 & -2 & 1 & 1 & -1 & -1 & 0 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -2 & 1 & 1 & -1 & 0 & 0 \\ 2 & 1 & -2 & 0 & 2 & -2 & 0 & 0 \\ 2 & 0 & -3 & 1 & 3 & -3 & 0 & 0 \\ 4 & 0 & -4 & 1 & 4 & -4 & 0 & 0 \\ 3 & 0 & -3 & 1 & 3 & -3 & -1 & 1 \\ 3 & 0 & -3 & 1 & 2 & -2 & -1 & 1 \\ 2 & 0 & -2 & 1 & 1 & -1 & -1 & 0 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -2 & 2 & -2 & 1 & 0 & 0 \\ 1 & -1 & -2 & 3 & -3 & 1 & 1 & 0 \\ 1 & 0 & -3 & 4 & -4 & 1 & 1 & 0 \\ 2 & 0 & -4 & 5 & -6 & 2 & 2 & 0 \\ 2 & 0 & -3 & 4 & -5 & 2 & 1 & 0 \\ 1 & 0 & -2 & 3 & -4 & 2 & 0 & 1 \\ 0 & 0 & -1 & 2 & -3 & 2 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -2 & 2 & -2 & 1 & 0 & 0 \\ 1 & 1 & -2 & 2 & -3 & 1 & 1 & 0 \\ 1 & 0 & -3 & 4 & -4 & 1 & 1 & 0 \\ 2 & 0 & -4 & 5 & -6 & 2 & 2 & 0 \\ 2 & 0 & -3 & 4 & -5 & 2 & 1 & 0 \\ 1 & 0 & -2 & 3 & -4 & 2 & 0 & 1 \\ 0 & 0 & -1 & 2 & -3 & 2 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 0 & 1 & -1 & 1 & 0 \\ 0 & -1 & -1 & 1 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 2 & -2 & 2 & 0 \\ 0 & 0 & -2 & 1 & 2 & -2 & 2 & 0 \\ 0 & 0 & -2 & 1 & 2 & -2 & 1 & 1 \\ 0 & 0 & -2 & 1 & 1 & -1 & 1 & 1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 2 & -2 & 2 & 0 \\ 0 & 0 & -2 & 1 & 2 & -2 & 2 & 0 \\ 0 & 0 & -2 & 1 & 2 & -2 & 1 & 1 \\ 0 & 0 & -2 & 1 & 1 & -1 & 1 & 1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & 0 & 0 & -1 \\ 2 & -1 & -1 & 0 & 2 & -1 & 0 & -1 \\ 2 & 0 & -1 & -1 & 3 & -1 & 0 & -2 \\ 4 & 0 & -2 & -1 & 4 & -2 & 0 & -2 \\ 3 & 0 & -2 & -1 & 4 & -2 & 0 & -1 \\ 3 & 0 & -2 & -1 & 3 & -1 & 0 & -1 \\ 2 & 0 & -2 & 0 & 2 & -1 & 0 & -1 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 0 & 1 & 0 & 0 & -1 \\ 2 & 1 & -1 & -1 & 2 & -1 & 0 & -1 \\ 2 & 0 & -1 & -1 & 3 & -1 & 0 & -2 \\ 4 & 0 & -2 & -1 & 4 & -2 & 0 & -2 \\ 3 & 0 & -2 & -1 & 4 & -2 & 0 & -1 \\ 3 & 0 & -2 & -1 & 3 & -1 & 0 & -1 \\ 2 & 0 & -2 & 0 & 2 & -1 & 0 & -1 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -2 & 2 & 0 & -1 \\ 1 & -1 & -1 & 2 & -3 & 2 & 1 & -1 \\ 1 & 0 & -1 & 2 & -4 & 3 & 1 & -2 \\ 2 & 0 & -2 & 3 & -6 & 4 & 2 & -2 \\ 2 & 0 & -2 & 2 & -4 & 3 & 2 & -2 \\ 1 & 0 & -1 & 1 & -3 & 3 & 1 & -1 \\ 0 & 0 & -1 & 1 & -2 & 2 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -2 & 2 & 0 & -1 \\ 1 & 1 & -1 & 1 & -3 & 2 & 1 & -1 \\ 1 & 0 & -1 & 2 & -4 & 3 & 1 & -2 \\ 2 & 0 & -2 & 3 & -6 & 4 & 2 & -2 \\ 2 & 0 & -2 & 2 & -4 & 3 & 2 & -2 \\ 1 & 0 & -1 & 1 & -3 & 3 & 1 & -1 \\ 0 & 0 & -1 & 1 & -2 & 2 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & -1 & 2 & -1 \\ 2 & -1 & -2 & 2 & -1 & -1 & 2 & -2 \\ 3 & 0 & -3 & 2 & -1 & -2 & 3 & -2 \\ 4 & 0 & -4 & 3 & -2 & -2 & 4 & -4 \\ 3 & 0 & -3 & 3 & -2 & -2 & 3 & -3 \\ 2 & 0 & -2 & 2 & -1 & -2 & 2 & -2 \\ 2 & 0 & -1 & 1 & -1 & -1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & -1 & 2 & -1 \\ 2 & 1 & -2 & 1 & -1 & -1 & 2 & -2 \\ 3 & 0 & -3 & 2 & -1 & -2 & 3 & -2 \\ 4 & 0 & -4 & 3 & -2 & -2 & 4 & -4 \\ 3 & 0 & -3 & 3 & -2 & -2 & 3 & -3 \\ 2 & 0 & -2 & 2 & -1 & -2 & 2 & -2 \\ 2 & 0 & -1 & 1 & -1 & -1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 2 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 2 & 0 & -2 & 0 & 2 \\ 0 & 0 & -2 & 3 & 0 & -2 & 0 & 2 \\ 0 & 0 & -1 & 2 & 0 & -1 & -1 & 2 \\ 0 & 0 & -1 & 2 & -1 & 0 & -1 & 2 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & 1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 2 & 0 & -2 & 0 & 2 \\ 0 & 0 & -2 & 3 & 0 & -2 & 0 & 2 \\ 0 & 0 & -1 & 2 & 0 & -1 & -1 & 2 \\ 0 & 0 & -1 & 2 & -1 & 0 & -1 & 2 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & 0 & 0 & -1 & 0 \\ 2 & -1 & -1 & 1 & 1 & -1 & -1 & 0 \\ 2 & 0 & -1 & 1 & 1 & -1 & -2 & 0 \\ 4 & 0 & -2 & 1 & 2 & -2 & -2 & 0 \\ 3 & 0 & -1 & 0 & 2 & -1 & -2 & 0 \\ 3 & 0 & -1 & 0 & 1 & 0 & -2 & 0 \\ 2 & 0 & -1 & 0 & 1 & 0 & -1 & -1 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & 0 & 0 & -1 & 0 \\ 2 & 1 & -1 & 0 & 1 & -1 & -1 & 0 \\ 2 & 0 & -1 & 1 & 1 & -1 & -2 & 0 \\ 4 & 0 & -2 & 1 & 2 & -2 & -2 & 0 \\ 3 & 0 & -1 & 0 & 2 & -1 & -2 & 0 \\ 3 & 0 & -1 & 0 & 1 & 0 & -2 & 0 \\ 2 & 0 & -1 & 0 & 1 & 0 & -1 & -1 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & -1 & 0 & 2 & -2 \\ 2 & -1 & -1 & 1 & -1 & 0 & 2 & -3 \\ 3 & 0 & -1 & 0 & -1 & 0 & 3 & -4 \\ 4 & 0 & -2 & 1 & -2 & 0 & 4 & -6 \\ 3 & 0 & -2 & 1 & -1 & -1 & 4 & -5 \\ 2 & 0 & -1 & 0 & 0 & -1 & 3 & -4 \\ 2 & 0 & -1 & 0 & 0 & -1 & 2 & -2 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & -1 & 0 & 2 & -2 \\ 2 & 1 & -1 & 0 & -1 & 0 & 2 & -3 \\ 3 & 0 & -1 & 0 & -1 & 0 & 3 & -4 \\ 4 & 0 & -2 & 1 & -2 & 0 & 4 & -6 \\ 3 & 0 & -2 & 1 & -1 & -1 & 4 & -5 \\ 2 & 0 & -1 & 0 & 0 & -1 & 3 & -4 \\ 2 & 0 & -1 & 0 & 0 & -1 & 2 & -2 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 0 & 1 & -1 & 2 & -1 & 0 & 0 \\ -3 & -1 & 2 & -1 & 2 & -1 & 0 & 1 \\ -4 & 0 & 2 & -2 & 3 & -1 & 0 & 1 \\ -6 & 0 & 4 & -3 & 4 & -2 & 0 & 2 \\ -5 & 0 & 3 & -2 & 3 & -2 & 0 & 2 \\ -4 & 0 & 2 & -1 & 2 & -2 & 1 & 1 \\ -3 & 0 & 1 & 0 & 1 & -1 & 0 & 1 \\ -2 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 1 & -2 & 0 & 1 & -1 \\ 2 & -1 & -1 & 2 & -2 & 0 & 1 & -2 \\ 3 & 0 & -1 & 2 & -3 & 0 & 1 & -2 \\ 4 & 0 & -2 & 3 & -4 & 0 & 2 & -4 \\ 3 & 0 & -1 & 2 & -3 & 0 & 2 & -4 \\ 2 & 0 & 0 & 1 & -2 & 0 & 1 & -3 \\ 2 & 0 & 0 & 0 & -1 & 0 & 1 & -2 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 1 & -2 & 0 & 1 & -1 \\ 2 & 1 & -1 & 1 & -2 & 0 & 1 & -2 \\ 3 & 0 & -1 & 2 & -3 & 0 & 1 & -2 \\ 4 & 0 & -2 & 3 & -4 & 0 & 2 & -4 \\ 3 & 0 & -1 & 2 & -3 & 0 & 2 & -4 \\ 2 & 0 & 0 & 1 & -2 & 0 & 1 & -3 \\ 2 & 0 & 0 & 0 & -1 & 0 & 1 & -2 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 2 & 0 & -2 & 1 & -1 & 0 & 1 & 0 \\ 3 & -1 & -3 & 2 & -1 & 0 & 1 & -1 \\ 4 & 0 & -4 & 2 & -1 & -1 & 2 & -1 \\ 6 & 0 & -6 & 3 & -2 & 0 & 2 & -2 \\ 5 & 0 & -5 & 3 & -2 & 0 & 1 & -1 \\ 4 & 0 & -4 & 2 & -1 & 0 & 0 & 0 \\ 3 & 0 & -2 & 1 & -1 & 0 & 0 & 0 \\ 2 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -2 & 1 & -1 & 0 & 1 & 0 \\ 3 & 1 & -3 & 1 & -1 & 0 & 1 & -1 \\ 4 & 0 & -4 & 2 & -1 & -1 & 2 & -1 \\ 6 & 0 & -6 & 3 & -2 & 0 & 2 & -2 \\ 5 & 0 & -5 & 3 & -2 & 0 & 1 & -1 \\ 4 & 0 & -4 & 2 & -1 & 0 & 0 & 0 \\ 3 & 0 & -2 & 1 & -1 & 0 & 0 & 0 \\ 2 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 0 & -1 & 1 & 1 & -1 \\ 3 & -1 & -2 & 1 & -1 & 1 & 1 & -2 \\ 4 & 0 & -2 & 0 & -1 & 1 & 2 & -3 \\ 6 & 0 & -4 & 1 & -2 & 2 & 2 & -4 \\ 5 & 0 & -4 & 1 & -1 & 1 & 2 & -3 \\ 4 & 0 & -3 & 0 & 0 & 1 & 1 & -2 \\ 3 & 0 & -2 & 0 & 0 & 0 & 1 & -1 \\ 2 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 2 & 0 & -1 & 0 & -1 & 1 & 1 & -1 \\ 3 & 1 & -2 & 0 & -1 & 1 & 1 & -2 \\ 4 & 0 & -2 & 0 & -1 & 1 & 2 & -3 \\ 6 & 0 & -4 & 1 & -2 & 2 & 2 & -4 \\ 5 & 0 & -4 & 1 & -1 & 1 & 2 & -3 \\ 4 & 0 & -3 & 0 & 0 & 1 & 1 & -2 \\ 3 & 0 & -2 & 0 & 0 & 0 & 1 & -1 \\ 2 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 1 & -2 & 1 & 0 & 0 \\ 3 & -1 & -2 & 2 & -2 & 1 & 0 & -1 \\ 4 & 0 & -2 & 2 & -3 & 1 & 0 & -1 \\ 6 & 0 & -4 & 3 & -4 & 2 & 0 & -2 \\ 5 & 0 & -3 & 2 & -3 & 2 & 0 & -2 \\ 4 & 0 & -2 & 1 & -2 & 2 & -1 & -1 \\ 3 & 0 & -1 & 0 & -1 & 1 & 0 & -1 \\ 2 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 1 & -2 & 1 & 0 & 0 \\ 3 & 1 & -2 & 1 & -2 & 1 & 0 & -1 \\ 4 & 0 & -2 & 2 & -3 & 1 & 0 & -1 \\ 6 & 0 & -4 & 3 & -4 & 2 & 0 & -2 \\ 5 & 0 & -3 & 2 & -3 & 2 & 0 & -2 \\ 4 & 0 & -2 & 1 & -2 & 2 & -1 & -1 \\ 3 & 0 & -1 & 0 & -1 & 1 & 0 & -1 \\ 2 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}.$$

The character table of G^{s99}:

									10										20							
$\chi_{99}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{99}^{(2)}$	1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{99}^{(3)}$	1	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1
$\chi_{99}^{(4)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	-1
$\chi_{99}^{(5)}$	1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1
$\chi_{99}^{(6)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1
$\chi_{99}^{(7)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	1
$\chi_{99}^{(8)}$	1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1
$\chi_{99}^{(9)}$	1	1	1	1	1	1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1
$\chi_{99}^{(10)}$	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	1	1	1	1	1	1	-1	-1	1	1	1	1
$\chi_{99}^{(11)}$	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{99}^{(12)}$	1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	1
$\chi_{99}^{(13)}$	1	1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	1
$\chi_{99}^{(14)}$	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	1	1
$\chi_{99}^{(15)}$	1	1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	1
$\chi_{99}^{(16)}$	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1
$\chi_{99}^{(17)}$	1	A	A	A	A	A	A	A	-1	-1	A	A	-1	-1	-1	-1	A	A	A	A	-1	-1	-1	-1	A	-1
$\chi_{99}^{(18)}$	1	-A	-A	-A	-A	-A	-A	-A	-1	-1	-A	-A	-1	-1	-1	-1	-A	-A	-A	-A	-1	-1	-1	-1	-A	-1
$\chi_{99}^{(19)}$	1	-A	A	-A	A	-A	-A	A	1	-1	-A	A	-1	1	1	-1	-A	A	-A	A	-1	1	1	-1	-A	-1
$\chi_{99}^{(20)}$	1	A	-A	A	-A	A	A	-A	1	-1	A	-A	-1	1	1	-1	A	-A	A	-A	-1	1	1	-1	A	-1
$\chi_{99}^{(21)}$	1	A	A	A	A	A	-A	-A	-1	-1	-A	-A	1	1	-1	-1	-A	-A	-A	-A	1	1	-1	-1	-A	1
$\chi_{99}^{(22)}$	1	-A	-A	-A	-A	-A	A	A	-1	-1	A	A	1	1	-1	-1	A	A	A	A	1	1	-1	-1	A	1
$\chi_{99}^{(23)}$	1	-A	A	-A	A	-A	A	-A	1	-1	A	-A	1	-1	1	-1	A	-A	A	-A	1	-1	1	-1	A	1
$\chi_{99}^{(24)}$	1	A	-A	A	-A	A	-A	A	1	-1	-A	A	1	-1	1	-1	-A	A	-A	A	1	-1	1	-1	-A	1
$\chi_{99}^{(25)}$	1	A	A	A	A	A	A	A	1	1	A	A	-1	-1	1	1	A	A	-A	-A	-1	-1	1	1	-A	-1
$\chi_{99}^{(26)}$	1	-A	-A	-A	-A	-A	-A	-A	1	1	-A	-A	-1	-1	1	1	-A	-A	A	A	-1	-1	1	1	A	-1
$\chi_{99}^{(27)}$	1	-A	A	-A	A	-A	-A	A	-1	1	-A	A	-1	1	-1	1	-A	A	A	-A	-1	1	-1	1	A	-1
$\chi_{99}^{(28)}$	1	A	-A	A	-A	A	A	-A	-1	1	A	-A	-1	1	-1	1	A	-A	-A	A	-1	1	-1	1	-A	-1
$\chi_{99}^{(29)}$	1	A	A	A	A	A	-A	-A	1	1	-A	-A	1	1	1	1	-A	-A	A	A	1	1	1	1	A	1
$\chi_{99}^{(30)}$	1	-A	-A	-A	-A	-A	A	A	1	1	A	A	1	1	1	1	A	A	-A	-A	1	1	1	1	-A	1
$\chi_{99}^{(31)}$	1	-A	A	-A	A	-A	A	-A	-1	1	A	-A	1	-1	-1	1	A	-A	-A	A	1	-1	-1	1	-A	1
$\chi_{99}^{(32)}$	1	A	-A	A	-A	A	-A	A	-1	1	-A	A	1	-1	-1	1	-A	A	A	-A	1	-1	-1	1	A	1
$\chi_{99}^{(33)}$	1	B	/B	/B	-1	-1	-B	-B	-1	-1	-/B	-/B	B	B	/B	/B	1	1	-1	-1	/B	/B	B	B	/B	-1
$\chi_{99}^{(34)}$	1	/B	B	B	-1	-1	-/B	-/B	-1	-1	-B	-B	/B	/B	B	B	1	1	-1	-1	B	B	/B	/B	B	-1
$\chi_{99}^{(35)}$	1	-B	/B	-/B	-1	1	B	-B	1	-1	/B	-/B	B	-B	-/B	/B	-1	1	1	-1	/B	-/B	-B	B	-/B	1
$\chi_{99}^{(36)}$	1	-/B	B	-B	-1	1	/B	-/B	1	-1	B	-B	/B	-/B	-B	B	-1	1	1	-1	B	-B	-/B	/B	-B	1
$\chi_{99}^{(37)}$	1	B	/B	/B	-1	-1	B	B	-1	-1	/B	/B	-B	-B	/B	/B	-1	-1	1	1	-/B	-/B	B	B	-/B	1
$\chi_{99}^{(38)}$	1	/B	B	B	-1	-1	/B	/B	-1	-1	B	B	-/B	-/B	B	B	-1	-1	1	1	-B	-B	/B	/B	-B	1
$\chi_{99}^{(39)}$	1	-B	/B	-/B	-1	1	-B	B	1	-1	-/B	/B	-B	B	-/B	/B	1	-1	-1	1	-/B	/B	-B	B	/B	-1
$\chi_{99}^{(40)}$	1	-/B	B	-B	-1	1	-/B	/B	1	-1	-B	B	-/B	/B	-B	B	1	-1	-1	1	-B	B	-/B	/B	B	-1
$\chi_{99}^{(41)}$	1	B	-/B	/B	1	-1	-B	B	1	-1	-/B	/B	B	-B	-/B	/B	1	-1	-1	1	/B	-/B	-B	B	/B	-1
$\chi_{99}^{(42)}$	1	/B	-B	B	1	-1	-/B	/B	1	-1	-B	B	/B	-/B	-B	B	1	-1	-1	1	B	-B	-/B	/B	B	-1
$\chi_{99}^{(43)}$	1	-B	-/B	-/B	1	1	B	B	-1	-1	/B	/B	B	B	/B	/B	-1	-1	1	1	/B	/B	B	B	-/B	1
$\chi_{99}^{(44)}$	1	-/B	-B	-B	1	1	/B	/B	-1	-1	B	B	/B	/B	B	B	-1	-1	1	1	B	B	/B	/B	-B	1
$\chi_{99}^{(45)}$	1	B	-/B	/B	1	-1	B	-B	1	-1	/B	-/B	-B	B	-/B	/B	-1	1	1	-1	-/B	/B	-B	B	-/B	1

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$\chi_{99}^{(46)}$	1	/B	-B	B	1	-1	/B	-/B	1	-1	B	-B	-/B	/B	-B	B	-1	1	1	-1	-B	B	-/B	/B	-B
$\chi_{99}^{(47)}$	1	-B	-/B	-/B	1	1	-B	-B	-1	-1	-/B	-/B	-B	-B	/B	/B	1	1	-1	-1	-/B	-/B	B	B	/B
$\chi_{99}^{(48)}$	1	-/B	-B	-B	1	1	-/B	-/B	-1	-1	-B	-B	-/B	-/B	B	B	1	1	-1	-1	-B	-B	/B	/B	B
$\chi_{99}^{(49)}$	1	C	-/C	-/C	A	A	C	C	-1	-1	-/C	-/C	B	B	/B	/B	A	A	A	A	/B	/B	B	B	-/C
$\chi_{99}^{(50)}$	1	-C	/C	/C	-A	-A	-C	-C	-1	-1	/C	/C	B	B	/B	/B	-A	-A	-A	-A	/B	/B	B	B	/C
$\chi_{99}^{(51)}$	1	-/C	C	C	A	A	-/C	-/C	-1	-1	C	C	/B	/B	B	B	A	A	A	A	B	B	/B	/B	C
$\chi_{99}^{(52)}$	1	/C	-C	-C	-A	-A	/C	/C	-1	-1	-C	-C	/B	/B	B	B	-A	-A	-A	-A	B	B	/B	/B	-C
$\chi_{99}^{(53)}$	1	-C	-/C	/C	A	-A	-C	C	1	-1	/C	-/C	B	-B	-/B	/B	-A	A	-A	A	/B	-/B	-B	B	/C
$\chi_{99}^{(54)}$	1	C	/C	-/C	-A	A	C	-C	1	-1	-/C	/C	B	-B	-/B	/B	A	-A	A	-A	/B	-/B	-B	B	-/C
$\chi_{99}^{(55)}$	1	/C	C	-C	A	-A	/C	-/C	1	-1	-C	C	/B	-/B	-B	B	-A	A	-A	A	B	-B	-/B	/B	-C
$\chi_{99}^{(56)}$	1	-/C	-C	C	-A	A	-/C	/C	1	-1	C	-C	/B	-/B	-B	B	A	-A	A	-A	B	-B	-/B	/B	C
$\chi_{99}^{(57)}$	1	C	-/C	-/C	A	A	-C	-C	-1	-1	/C	/C	-B	-B	/B	/B	-A	-A	-A	-A	-/B	-/B	B	B	/C
$\chi_{99}^{(58)}$	1	-C	/C	/C	-A	-A	C	C	-1	-1	-/C	-/C	-B	-B	/B	/B	A	A	A	A	-/B	-/B	B	B	-/C
$\chi_{99}^{(59)}$	1	-/C	C	C	A	A	/C	/C	-1	-1	-C	-C	-/B	-/B	B	B	-A	-A	-A	-A	-B	-B	/B	/B	-C
$\chi_{99}^{(60)}$	1	/C	-C	-C	-A	-A	-/C	-/C	-1	-1	C	C	-/B	-/B	B	B	A	A	A	A	-B	-B	/B	/B	C
$\chi_{99}^{(61)}$	1	-C	-/C	/C	A	-A	C	-C	1	-1	-/C	/C	-B	B	-/B	/B	A	-A	A	-A	-/B	/B	-B	B	-/C
$\chi_{99}^{(62)}$	1	C	/C	-/C	-A	A	-C	C	1	-1	/C	-/C	-B	B	-/B	/B	-A	A	-A	A	-/B	/B	-B	B	/C
$\chi_{99}^{(63)}$	1	/C	C	-C	A	-A	-/C	/C	1	-1	C	-C	-/B	/B	-B	B	A	-A	A	-A	-B	B	-/B	/B	C
$\chi_{99}^{(64)}$	1	-/C	-C	C	-A	A	/C	-/C	1	-1	-C	C	-/B	/B	-B	B	-A	A	-A	A	-B	B	-/B	/B	-C
$\chi_{99}^{(65)}$	1	B	/B	/B	-1	-1	-B	-B	1	1	-/B	-/B	B	B	-/B	-/B	1	1	1	1	/B	/B	-B	-B	-/B
$\chi_{99}^{(66)}$	1	/B	B	B	-1	-1	-/B	-/B	1	1	-B	-B	/B	/B	-B	-B	1	1	1	1	B	B	-/B	-/B	-B
$\chi_{99}^{(67)}$	1	-B	/B	-/B	-1	1	B	-B	-1	1	/B	-/B	B	-B	/B	-/B	-1	1	-1	1	/B	-/B	B	-B	/B
$\chi_{99}^{(68)}$	1	-/B	B	-B	-1	1	/B	-/B	-1	1	B	-B	/B	-/B	B	-B	-1	1	-1	1	B	-B	/B	-/B	B
$\chi_{99}^{(69)}$	1	B	/B	/B	-1	-1	B	B	1	1	/B	/B	-B	-B	-/B	-/B	-1	-1	-1	-1	-/B	-/B	-B	-B	/B
$\chi_{99}^{(70)}$	1	/B	B	B	-1	-1	/B	/B	1	1	B	B	-/B	-/B	-B	-B	-1	-1	-1	-1	-B	-B	-/B	-/B	B
$\chi_{99}^{(71)}$	1	-B	/B	-/B	-1	1	-B	B	-1	1	-/B	/B	-B	B	/B	-/B	1	-1	1	-1	-/B	/B	B	-B	-/B
$\chi_{99}^{(72)}$	1	-/B	B	-B	-1	1	-/B	/B	-1	1	-B	B	-/B	/B	B	-B	1	-1	1	-1	-B	B	/B	-/B	-B
$\chi_{99}^{(73)}$	1	B	-/B	/B	1	-1	-B	B	-1	1	-/B	/B	B	-B	/B	-/B	1	-1	1	-1	/B	-/B	B	-B	-/B
$\chi_{99}^{(74)}$	1	/B	-B	B	1	-1	-/B	/B	-1	1	-B	B	/B	-/B	B	-B	1	-1	1	-1	B	-B	/B	-/B	-B
$\chi_{99}^{(75)}$	1	-B	-/B	-/B	1	1	B	B	1	1	/B	/B	B	B	-/B	-/B	-1	-1	-1	-1	/B	/B	-B	-B	/B
$\chi_{99}^{(76)}$	1	-/B	-B	-B	1	1	/B	/B	1	1	B	B	/B	/B	-B	-B	-1	-1	-1	-1	B	B	-/B	-/B	B
$\chi_{99}^{(77)}$	1	B	-/B	/B	1	-1	B	-B	-1	1	/B	-/B	-B	B	/B	-/B	-1	1	-1	1	-/B	/B	B	-B	/B
$\chi_{99}^{(78)}$	1	/B	-B	B	1	-1	/B	-/B	-1	1	B	-B	-/B	/B	B	-B	-1	1	-1	1	-B	B	/B	-/B	B
$\chi_{99}^{(79)}$	1	-B	-/B	-/B	1	1	-B	-B	1	1	-/B	-/B	-B	-B	-/B	-/B	1	1	1	1	-/B	-/B	-B	-B	-/B
$\chi_{99}^{(80)}$	1	-/B	-B	-B	1	1	-/B	-/B	1	1	-B	-B	-/B	-/B	-B	-B	1	1	1	1	-B	-B	-/B	-/B	-B
$\chi_{99}^{(81)}$	1	C	-/C	-/C	A	A	C	C	1	1	-/C	-/C	B	B	-/B	-/B	A	A	-A	-A	/B	/B	-B	-B	/C
$\chi_{99}^{(82)}$	1	-C	/C	/C	-A	-A	-C	-C	1	1	/C	/C	B	B	-/B	-/B	-A	-A	A	A	/B	/B	-B	-B	-/C
$\chi_{99}^{(83)}$	1	-/C	C	C	A	A	-/C	-/C	1	1	C	C	/B	/B	-B	-B	A	A	-A	-A	B	B	-/B	-/B	-C
$\chi_{99}^{(84)}$	1	/C	-C	-C	-A	-A	/C	/C	1	1	-C	-C	/B	/B	-B	-B	-A	-A	A	A	B	B	-/B	-/B	C
$\chi_{99}^{(85)}$	1	-C	-/C	/C	A	-A	-C	C	-1	1	/C	-/C	B	-B	/B	-/B	-A	A	A	-A	/B	-/B	B	-B	-/C
$\chi_{99}^{(86)}$	1	C	/C	-/C	-A	A	C	-C	-1	1	-/C	/C	B	-B	/B	-/B	A	-A	-A	A	/B	-/B	B	-B	/C
$\chi_{99}^{(87)}$	1	/C	C	-C	A	-A	/C	-/C	-1	1	-C	C	/B	-/B	B	-B	-A	A	A	-A	B	-B	/B	-/B	C
$\chi_{99}^{(88)}$	1	-/C	-C	C	-A	A	-/C	/C	-1	1	C	-C	/B	-/B	B	-B	A	-A	-A	A	B	-B	/B	-/B	-C
$\chi_{99}^{(89)}$	1	C	-/C	-/C	A	A	-C	-C	1	1	/C	/C	-B	-B	-/B	-/B	-A	-A	A	A	-/B	-/B	-B	-B	-/C
$\chi_{99}^{(90)}$	1	-C	/C	/C	-A	-A	C	C	1	1	-/C	-/C	-B	-B	-/B	-/B	A	A	-A	-A	-/B	-/B	-B	-B	/C

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$\chi_{99}^{(91)}$	1	-/C	C	C	A	A	/C	/C	1	1	-C	-C	-/B	-/B	-B	-B	-A	-A	A	A	-B	-B	-/B	-/B	C
$\chi_{99}^{(92)}$	1	/C	-C	-C	-A	-A	-/C	-/C	1	1	C	C	-/B	-/B	-B	-B	A	A	-A	-A	-B	-B	-/B	-/B	-C
$\chi_{99}^{(93)}$	1	-C	-/C	/C	A	-A	C	-C	-1	1	-/C	/C	-B	B	/B	-/B	A	-A	-A	A	-/B	/B	B	-B	/C
$\chi_{99}^{(94)}$	1	C	/C	-/C	-A	A	-C	C	-1	1	/C	-/C	-B	B	/B	-/B	-A	A	A	-A	-/B	/B	B	-B	-/C
$\chi_{99}^{(95)}$	1	/C	C	-C	A	-A	-/C	/C	-1	1	C	-C	-/B	/B	B	-B	A	-A	-A	A	-B	B	/B	-/B	-C
$\chi_{99}^{(96)}$	1	-/C	-C	C	-A	A	/C	-/C	-1	1	-C	C	-/B	/B	B	-B	-A	A	A	-A	-B	B	/B	-/B	C

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$\chi_{99}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{99}^{(2)}$	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{99}^{(3)}$	-1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	
$\chi_{99}^{(4)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	
$\chi_{99}^{(5)}$	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	1	
$\chi_{99}^{(6)}$	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	
$\chi_{99}^{(7)}$	1	-1	-1	1	1	1	1	1	1	-1	-1	1	1	1	1	1	1	-1	-1	1	1	1	1	-1	
$\chi_{99}^{(8)}$	-1	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	
$\chi_{99}^{(9)}$	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	
$\chi_{99}^{(10)}$	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	
$\chi_{99}^{(11)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	
$\chi_{99}^{(12)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	1	1	1	
$\chi_{99}^{(13)}$	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	1	
$\chi_{99}^{(14)}$	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	
$\chi_{99}^{(15)}$	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	1	1	1	1	-1	-1	-1	
$\chi_{99}^{(16)}$	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	
$\chi_{99}^{(17)}$	A	-1	-1	A	A	-1	-1	-A	-A	1	1	-A	-A	-1	-1	-1	-1	A	A	-1	-1	-1	-1	1	
$\chi_{99}^{(18)}$	-A	-1	-1	-A	-A	-1	-1	A	A	1	1	A	A	-1	-1	-1	-1	-A	-A	-1	-1	-1	-1	1	
$\chi_{99}^{(19)}$	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	1	-1	-1	1	A	-A	1	-1	-1	1	1	
$\chi_{99}^{(20)}$	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	1	-1	-1	1	-A	A	1	-1	-1	1	1	
$\chi_{99}^{(21)}$	-A	1	1	-A	-A	1	1	-A	-A	1	1	-A	-A	-1	-1	1	1	A	A	-1	-1	1	1	-1	
$\chi_{99}^{(22)}$	A	1	1	A	A	1	1	A	A	1	1	A	A	-1	-1	1	1	-A	-A	-1	-1	1	1	-1	
$\chi_{99}^{(23)}$	-A	1	-1	A	-A	1	-1	-A	A	-1	1	-A	A	1	-1	1	-1	A	-A	1	-1	1	-1	-1	
$\chi_{99}^{(24)}$	A	1	-1	-A	A	1	-1	A	-A	-1	1	A	-A	1	-1	1	-1	-A	A	1	-1	1	-1	-1	
$\chi_{99}^{(25)}$	-A	-1	-1	-A	-A	1	1	-A	-A	-1	-1	-A	-A	-1	-1	1	1	-A	-A	-1	-1	1	1	1	
$\chi_{99}^{(26)}$	A	-1	-1	A	A	1	1	A	A	-1	-1	A	A	-1	-1	1	1	A	A	-1	-1	1	1	1	
$\chi_{99}^{(27)}$	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1	-1	1	-1	-A	A	1	-1	1	-1	1	
$\chi_{99}^{(28)}$	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1	-1	1	-1	A	-A	1	-1	1	-1	1	
$\chi_{99}^{(29)}$	A	1	1	A	A	-1	-1	-A	-A	-1	-1	-A	-A	-1	-1	-1	-1	-A	-A	-1	-1	-1	-1	-1	
$\chi_{99}^{(30)}$	-A	1	1	-A	-A	-1	-1	A	A	-1	-1	A	A	-1	-1	-1	-1	A	A	-1	-1	-1	-1	-1	
$\chi_{99}^{(31)}$	A	1	-1	-A	A	-1	1	-A	A	1	-1	-A	A	1	-1	-1	1	-A	A	1	-1	-1	1	-1	
$\chi_{99}^{(32)}$	-A	1	-1	A	-A	-1	1	A	-A	1	-1	A	-A	1	-1	-1	1	A	-A	1	-1	-1	1	-1	
$\chi_{99}^{(33)}$	/B	-1	-1	B	B	1	1	B	B	-1	-1	/B	/B	-B	-B	-/B	-/B	1	1	-/B	-/B	-B	-B	B	
$\chi_{99}^{(34)}$	B	-1	-1	/B	/B	1	1	/B	/B	-1	-1	B	B	-/B	-/B	-B	-B	1	1	-B	-B	-/B	-/B	/B	
$\chi_{99}^{(35)}$	/B	-1	1	-B	B	1	-1	B	-B	1	-1	/B	-/B	B	-B	-/B	/B	1	-1	/B	-/B	-B	B	B	
$\chi_{99}^{(36)}$	B	-1	1	-/B	/B	1	-1	/B	-/B	1	-1	B	-B	/B	-/B	-B	B	1	-1	B	-B	-/B	/B	/B	
$\chi_{99}^{(37)}$	-/B	1	1	-B	-B	-1	-1	B	B	-1	-1	/B	/B	-B	-B	/B	/B	1	1	-/B	-/B	B	B	-B	
$\chi_{99}^{(38)}$	-B	1	1	-/B	-/B	-1	-1	/B	/B	-1	-1	B	B	-/B	-/B	B	B	1	1	-B	-B	/B	/B	-/B	
$\chi_{99}^{(39)}$	-/B	1	-1	B	-B	-1	1	B	-B	1	-1	/B	-/B	B	-B	/B	-/B	1	-1	/B	-/B	B	-B	-B	
$\chi_{99}^{(40)}$	-B	1	-1	/B	-/B	-1	1	/B	-/B	1	-1	B	-B	/B	-/B	B	-B	1	-1	B	-B	/B	-/B	-/B	

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$\chi_{99}^{(41)}$	-/B	-1	1	B	-B	1	-1	-B	B	1	-1	-/B	/B	B	-B	-/B	/B	-1	1	/B	-/B	-B	B	B
$\chi_{99}^{(42)}$	-B	-1	1	/B	-/B	1	-1	-/B	/B	1	-1	-B	B	/B	-/B	-B	B	-1	1	B	-B	-/B	/B	/B
$\chi_{99}^{(43)}$	-/B	-1	-1	-B	-B	1	1	-B	-B	-1	-1	-/B	-/B	-B	-B	-/B	-/B	-1	-1	-/B	-/B	-B	-B	B
$\chi_{99}^{(44)}$	-B	-1	-1	-/B	-/B	1	1	-/B	-/B	-1	-1	-B	-B	-/B	-/B	-B	-B	-1	-1	-B	-B	-/B	-/B	/B
$\chi_{99}^{(45)}$	/B	1	-1	-B	B	-1	1	-B	B	1	-1	-/B	/B	B	-B	/B	-/B	-1	1	/B	-/B	B	-B	-B
$\chi_{99}^{(46)}$	B	1	-1	-/B	/B	-1	1	-/B	/B	1	-1	-B	B	/B	-/B	B	-B	-1	1	B	-B	/B	-/B	-/B
$\chi_{99}^{(47)}$	/B	1	1	B	B	-1	-1	-B	-B	-1	-1	-/B	-/B	-B	-B	/B	/B	-1	-1	-/B	-/B	B	B	-B
$\chi_{99}^{(48)}$	B	1	1	/B	/B	-1	-1	-/B	-/B	-1	-1	-B	-B	-/B	-/B	B	B	-1	-1	-B	-B	/B	/B	-/B
$\chi_{99}^{(49)}$	-/C	-1	-1	C	C	-1	-1	-C	-C	1	1	/C	/C	B	B	/B	/B	A	A	/B	/B	B	B	-B
$\chi_{99}^{(50)}$	/C	-1	-1	-C	-C	-1	-1	C	C	1	1	-/C	-/C	B	B	/B	/B	-A	-A	/B	/B	B	B	-B
$\chi_{99}^{(51)}$	C	-1	-1	-/C	-/C	-1	-1	/C	/C	1	1	-C	-C	/B	/B	B	B	A	A	B	B	/B	/B	-/B
$\chi_{99}^{(52)}$	-C	-1	-1	/C	/C	-1	-1	-/C	-/C	1	1	C	C	/B	/B	B	B	-A	-A	B	B	/B	/B	-/B
$\chi_{99}^{(53)}$	-/C	-1	1	-C	C	-1	1	-C	C	-1	1	/C	-/C	-B	B	/B	-/B	A	-A	-/B	/B	B	-B	-B
$\chi_{99}^{(54)}$	/C	-1	1	C	-C	-1	1	C	-C	-1	1	-/C	/C	-B	B	/B	-/B	-A	A	-/B	/B	B	-B	-B
$\chi_{99}^{(55)}$	C	-1	1	/C	-/C	-1	1	/C	-/C	-1	1	-C	C	-/B	/B	B	-B	A	-A	-B	B	/B	-/B	-/B
$\chi_{99}^{(56)}$	-C	-1	1	-/C	/C	-1	1	-/C	/C	-1	1	C	-C	-/B	/B	B	-B	-A	A	-B	B	/B	-/B	-/B
$\chi_{99}^{(57)}$	/C	1	1	-C	-C	1	1	-C	-C	1	1	/C	/C	B	B	-/B	-/B	A	A	/B	/B	-B	-B	B
$\chi_{99}^{(58)}$	-/C	1	1	C	C	1	1	C	C	1	1	-/C	-/C	B	B	-/B	-/B	-A	-A	/B	/B	-B	-B	B
$\chi_{99}^{(59)}$	-C	1	1	/C	/C	1	1	/C	/C	1	1	-C	-C	/B	/B	-B	-B	A	A	B	B	-/B	-/B	/B
$\chi_{99}^{(60)}$	C	1	1	-/C	-/C	1	1	-/C	-/C	1	1	C	C	/B	/B	-B	-B	-A	-A	B	B	-/B	-/B	/B
$\chi_{99}^{(61)}$	/C	1	-1	C	-C	1	-1	-C	C	-1	1	/C	-/C	-B	B	-/B	/B	A	-A	-/B	/B	-B	B	B
$\chi_{99}^{(62)}$	-/C	1	-1	-C	C	1	-1	C	-C	-1	1	-/C	/C	-B	B	-/B	/B	-A	A	-/B	/B	-B	B	B
$\chi_{99}^{(63)}$	-C	1	-1	-/C	/C	1	-1	/C	-/C	-1	1	-C	C	-/B	/B	-B	B	A	-A	-B	B	-/B	/B	/B
$\chi_{99}^{(64)}$	C	1	-1	/C	-/C	1	-1	-/C	/C	-1	1	C	-C	-/B	/B	-B	B	-A	A	-B	B	-/B	/B	/B
$\chi_{99}^{(65)}$	-/B	-1	-1	-B	-B	-1	-1	B	B	1	1	/B	/B	-B	-B	/B	/B	-1	-1	-/B	-/B	B	B	B
$\chi_{99}^{(66)}$	-B	-1	-1	-/B	-/B	-1	-1	/B	/B	1	1	B	B	-/B	-/B	B	B	-1	-1	-B	-B	/B	/B	/B
$\chi_{99}^{(67)}$	-/B	-1	1	B	-B	-1	1	B	-B	-1	1	/B	-/B	B	-B	/B	-/B	-1	1	/B	-/B	B	-B	B
$\chi_{99}^{(68)}$	-B	-1	1	/B	-/B	-1	1	/B	-/B	-1	1	B	-B	/B	-/B	B	-B	-1	1	B	-B	/B	-/B	/B
$\chi_{99}^{(69)}$	/B	1	1	B	B	1	1	B	B	1	1	/B	/B	-B	-B	-/B	-/B	-1	-1	-/B	-/B	-B	-B	-B
$\chi_{99}^{(70)}$	B	1	1	/B	/B	1	1	/B	/B	1	1	B	B	-/B	-/B	-B	-B	-1	-1	-B	-B	-/B	-/B	-/B
$\chi_{99}^{(71)}$	/B	1	-1	-B	B	1	-1	B	-B	-1	1	/B	-/B	B	-B	-/B	/B	-1	1	/B	-/B	-B	B	-B
$\chi_{99}^{(72)}$	B	1	-1	-/B	/B	1	-1	/B	-/B	-1	1	B	-B	/B	-/B	-B	B	-1	1	B	-B	-/B	/B	-/B
$\chi_{99}^{(73)}$	/B	-1	1	-B	B	-1	1	-B	B	-1	1	-/B	/B	B	-B	/B	-/B	1	-1	/B	-/B	B	-B	B
$\chi_{99}^{(74)}$	B	-1	1	-/B	/B	-1	1	-/B	/B	-1	1	-B	B	/B	-/B	B	-B	1	-1	B	-B	/B	-/B	/B
$\chi_{99}^{(75)}$	/B	-1	-1	B	B	-1	-1	-B	-B	1	1	-/B	-/B	-B	-B	/B	/B	1	1	-/B	-/B	B	B	B
$\chi_{99}^{(76)}$	B	-1	-1	/B	/B	-1	-1	-/B	-/B	1	1	-B	-B	-/B	-/B	B	B	1	1	-B	-B	/B	/B	/B
$\chi_{99}^{(77)}$	-/B	1	-1	B	-B	1	-1	-B	B	-1	1	-/B	/B	B	-B	-/B	/B	1	-1	/B	-/B	-B	B	-B
$\chi_{99}^{(78)}$	-B	1	-1	/B	-/B	1	-1	-/B	/B	-1	1	-B	B	/B	-/B	-B	B	1	-1	B	-B	-/B	/B	-/B
$\chi_{99}^{(79)}$	-/B	1	1	-B	-B	1	1	-B	-B	1	1	-/B	-/B	-B	-B	-/B	-/B	1	1	-/B	-/B	-B	-B	-B
$\chi_{99}^{(80)}$	-B	1	1	-/B	-/B	1	1	-/B	-/B	1	1	-B	-B	-/B	-/B	-B	-B	1	1	-B	-B	-/B	-/B	-/B
$\chi_{99}^{(81)}$	/C	-1	-1	-C	-C	1	1	-C	-C	-1	-1	/C	/C	B	B	-/B	-/B	-A	-A	/B	/B	-B	-B	-B
$\chi_{99}^{(82)}$	-/C	-1	-1	C	C	1	1	C	C	-1	-1	-/C	-/C	B	B	-/B	-/B	A	A	/B	/B	-B	-B	-B
$\chi_{99}^{(83)}$	-C	-1	-1	/C	/C	1	1	/C	/C	-1	-1	-C	-C	/B	/B	-B	-B	-A	-A	B	B	-/B	-/B	-/B
$\chi_{99}^{(84)}$	C	-1	-1	-/C	-/C	1	1	-/C	-/C	-1	-1	C	C	/B	/B	-B	-B	A	A	B	B	-/B	-/B	-/B
$\chi_{99}^{(85)}$	/C	-1	1	C	-C	1	-1	-C	C	1	-1	/C	-/C	-B	B	-/B	/B	-A	A	-/B	/B	-B	B	-B

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$\chi_{99}^{(86)}$	-/C	-1	1	-C	C	1	-1	C	-C	1	-1	-/C	/C	-B	B	-/B	/B	A	-A	-/B	/B	-B	B	-B
$\chi_{99}^{(87)}$	-C	-1	1	-/C	/C	1	-1	/C	-/C	1	-1	-C	C	-/B	/B	-B	B	-A	A	-B	B	-/B	/B	-/B
$\chi_{99}^{(88)}$	C	-1	1	/C	-/C	1	-1	-/C	/C	1	-1	C	-C	-/B	/B	-B	B	A	-A	-B	B	-/B	/B	-/B
$\chi_{99}^{(89)}$	-/C	1	1	C	C	-1	-1	-C	-C	-1	-1	/C	/C	B	B	/B	/B	-A	-A	/B	/B	B	B	B
$\chi_{99}^{(90)}$	/C	1	1	-C	-C	-1	-1	C	C	-1	-1	-/C	-/C	B	B	/B	/B	A	A	/B	/B	B	B	B
$\chi_{99}^{(91)}$	C	1	1	-/C	-/C	-1	-1	/C	/C	-1	-1	-C	-C	/B	/B	B	B	-A	-A	B	B	/B	/B	/B
$\chi_{99}^{(92)}$	-C	1	1	/C	/C	-1	-1	-/C	-/C	-1	-1	C	C	/B	/B	B	B	A	A	B	B	/B	/B	/B
$\chi_{99}^{(93)}$	-/C	1	-1	-C	C	-1	1	-C	C	1	-1	/C	-/C	-B	B	/B	-/B	-A	A	-/B	/B	B	-B	B
$\chi_{99}^{(94)}$	/C	1	-1	C	-C	-1	1	C	-C	1	-1	-/C	/C	-B	B	/B	-/B	A	-A	-/B	/B	B	-B	B
$\chi_{99}^{(95)}$	C	1	-1	/C	-/C	-1	1	/C	-/C	1	-1	-C	C	-/B	/B	B	-B	-A	A	-B	B	/B	-/B	/B
$\chi_{99}^{(96)}$	-C	1	-1	-/C	/C	-1	1	-/C	/C	1	-1	C	-C	-/B	/B	B	-B	A	-A	-B	B	/B	-/B	/B

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$\chi_{99}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{99}^{(2)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	1	1	1	1	1	1	1
$\chi_{99}^{(3)}$	1	1	-1	-1	1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
$\chi_{99}^{(4)}$	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{99}^{(5)}$	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	-1
$\chi_{99}^{(6)}$	1	1	-1	1	-1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	-1
$\chi_{99}^{(7)}$	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1
$\chi_{99}^{(8)}$	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1
$\chi_{99}^{(9)}$	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	1
$\chi_{99}^{(10)}$	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1
$\chi_{99}^{(11)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{99}^{(12)}$	1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{99}^{(13)}$	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	-1
$\chi_{99}^{(14)}$	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
$\chi_{99}^{(15)}$	-1	1	1	1	1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{99}^{(16)}$	-1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	-1
$\chi_{99}^{(17)}$	1	1	1	-A	-A	1	1	1	1	A	A	-1	-1	A	A	1	1	-A	-A	1	1	-A	-A	1
$\chi_{99}^{(18)}$	1	1	1	A	A	1	1	1	1	-A	-A	-1	-1	-A	-A	1	1	A	A	1	1	A	A	1
$\chi_{99}^{(19)}$	-1	-1	1	-A	A	1	-1	-1	1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1
$\chi_{99}^{(20)}$	-1	-1	1	A	-A	1	-1	-1	1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1
$\chi_{99}^{(21)}$	-1	1	1	-A	-A	-1	-1	1	1	A	A	-1	-1	A	A	-1	-1	A	A	-1	-1	A	A	1
$\chi_{99}^{(22)}$	-1	1	1	A	A	-1	-1	1	1	-A	-A	-1	-1	-A	-A	-1	-1	-A	-A	-1	-1	-A	-A	1
$\chi_{99}^{(23)}$	1	-1	1	-A	A	-1	1	-1	1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-1
$\chi_{99}^{(24)}$	1	-1	1	A	-A	-1	1	-1	1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-1
$\chi_{99}^{(25)}$	1	-1	-1	-A	-A	1	1	-1	-1	-A	-A	-1	-1	-A	-A	1	1	-A	-A	-1	-1	-A	-A	1
$\chi_{99}^{(26)}$	1	-1	-1	A	A	1	1	-1	-1	A	A	-1	-1	A	A	1	1	A	A	-1	-1	A	A	1
$\chi_{99}^{(27)}$	-1	1	-1	-A	A	1	-1	1	-1	-A	A	1	-1	-A	A	1	-1	A	-A	-1	1	A	-A	-1
$\chi_{99}^{(28)}$	-1	1	-1	A	-A	1	-1	1	-1	A	-A	1	-1	A	-A	1	-1	-A	A	-1	1	-A	A	-1
$\chi_{99}^{(29)}$	-1	-1	-1	-A	-A	-1	-1	-1	-1	-A	-A	-1	-1	-A	-A	-1	-1	A	A	1	1	A	A	1
$\chi_{99}^{(30)}$	-1	-1	-1	A	A	-1	-1	-1	-1	A	A	-1	-1	A	A	-1	-1	-A	-A	1	1	-A	-A	1

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$\chi_{99}^{(31)}$	1	1	-1	-A	A	-1	1	1	-1	-A	A	1	-1	-A	A	-1	1	-A	A	1	-1	-A	A	-1
$\chi_{99}^{(32)}$	1	1	-1	A	-A	-1	1	1	-1	A	-A	1	-1	A	-A	-1	1	A	-A	1	-1	A	-A	-1
$\chi_{99}^{(33)}$	B	/B	/B	-1	-1	/B	/B	B	B	-/B	-/B	1	1	-B	-B	-1	-1	-B	-B	1	1	-/B	-/B	-B
$\chi_{99}^{(34)}$	/B	B	B	-1	-1	B	B	/B	/B	-B	-B	1	1	-/B	-/B	-1	-1	-/B	-/B	1	1	-B	-B	-/B
$\chi_{99}^{(35)}$	-B	-/B	/B	-1	1	/B	-/B	-B	B	-/B	/B	-1	1	-B	B	-1	1	B	-B	1	-1	/B	-/B	B
$\chi_{99}^{(36)}$	-/B	-B	B	-1	1	B	-B	-/B	/B	-B	B	-1	1	-/B	/B	-1	1	/B	-/B	1	-1	B	-B	/B
$\chi_{99}^{(37)}$	-B	/B	/B	-1	-1	-/B	-/B	B	B	-/B	-/B	1	1	-B	-B	1	1	B	B	-1	-1	/B	/B	-B
$\chi_{99}^{(38)}$	-/B	B	B	-1	-1	-B	-B	/B	/B	-B	-B	1	1	-/B	-/B	1	1	/B	/B	-1	-1	B	B	-/B
$\chi_{99}^{(39)}$	B	-/B	/B	-1	1	-/B	/B	-B	B	-/B	/B	-1	1	-B	B	1	-1	-B	B	-1	1	-/B	/B	B
$\chi_{99}^{(40)}$	/B	-B	B	-1	1	-B	B	-/B	/B	-B	B	-1	1	-/B	/B	1	-1	-/B	/B	-1	1	-B	B	/B
$\chi_{99}^{(41)}$	-B	-/B	/B	1	-1	/B	-/B	-B	B	/B	-/B	-1	1	B	-B	-1	1	-B	B	1	-1	-/B	/B	B
$\chi_{99}^{(42)}$	-/B	-B	B	1	-1	B	-B	-/B	/B	B	-B	-1	1	/B	-/B	-1	1	-/B	/B	1	-1	-B	B	/B
$\chi_{99}^{(43)}$	B	/B	/B	1	1	/B	/B	B	B	/B	/B	1	1	B	B	-1	-1	B	B	1	1	/B	/B	-B
$\chi_{99}^{(44)}$	/B	B	B	1	1	B	B	/B	/B	B	B	1	1	/B	/B	-1	-1	/B	/B	1	1	B	B	-/B
$\chi_{99}^{(45)}$	B	-/B	/B	1	-1	-/B	/B	-B	B	/B	-/B	-1	1	B	-B	1	-1	B	-B	-1	1	/B	-/B	B
$\chi_{99}^{(46)}$	/B	-B	B	1	-1	-B	B	-/B	/B	B	-B	-1	1	/B	-/B	1	-1	/B	-/B	-1	1	B	-B	/B
$\chi_{99}^{(47)}$	-B	/B	/B	1	1	-/B	-/B	B	B	/B	/B	1	1	B	B	1	1	-B	-B	-1	-1	-/B	-/B	-B
$\chi_{99}^{(48)}$	-/B	B	B	1	1	-B	-B	/B	/B	B	B	1	1	/B	/B	1	1	-/B	-/B	-1	-1	-B	-B	-/B
$\chi_{99}^{(49)}$	-B	-/B	-/B	-A	-A	-/B	-/B	-B	-B	-/C	-/C	-1	-1	C	C	1	1	-C	-C	1	1	/C	/C	-B
$\chi_{99}^{(50)}$	-B	-/B	-/B	A	A	-/B	-/B	-B	-B	/C	/C	-1	-1	-C	-C	1	1	C	C	1	1	-/C	-/C	-B
$\chi_{99}^{(51)}$	-/B	-B	-B	-A	-A	-B	-B	-/B	-/B	C	C	-1	-1	-/C	-/C	1	1	/C	/C	1	1	-C	-C	-/B
$\chi_{99}^{(52)}$	-/B	-B	-B	A	A	-B	-B	-/B	-/B	-C	-C	-1	-1	/C	/C	1	1	-/C	-/C	1	1	C	C	-/B
$\chi_{99}^{(53)}$	B	/B	-/B	-A	A	-/B	/B	B	-B	-/C	/C	1	-1	C	-C	1	-1	C	-C	1	-1	-/C	/C	B
$\chi_{99}^{(54)}$	B	/B	-/B	A	-A	-/B	/B	B	-B	/C	-/C	1	-1	-C	C	1	-1	-C	C	1	-1	/C	-/C	B
$\chi_{99}^{(55)}$	/B	B	-B	-A	A	-B	B	/B	-/B	C	-C	1	-1	-/C	/C	1	-1	-/C	/C	1	-1	C	-C	/B
$\chi_{99}^{(56)}$	/B	B	-B	A	-A	-B	B	/B	-/B	-C	C	1	-1	/C	-/C	1	-1	/C	-/C	1	-1	-C	C	/B
$\chi_{99}^{(57)}$	B	-/B	-/B	-A	-A	/B	/B	-B	-B	-/C	-/C	-1	-1	C	C	-1	-1	C	C	-1	-1	-/C	-/C	-B
$\chi_{99}^{(58)}$	B	-/B	-/B	A	A	/B	/B	-B	-B	/C	/C	-1	-1	-C	-C	-1	-1	-C	-C	-1	-1	/C	/C	-B
$\chi_{99}^{(59)}$	/B	-B	-B	-A	-A	B	B	-/B	-/B	C	C	-1	-1	-/C	-/C	-1	-1	-/C	-/C	-1	-1	C	C	-/B
$\chi_{99}^{(60)}$	/B	-B	-B	A	A	B	B	-/B	-/B	-C	-C	-1	-1	/C	/C	-1	-1	/C	/C	-1	-1	-C	-C	-/B
$\chi_{99}^{(61)}$	-B	/B	-/B	-A	A	/B	-/B	B	-B	-/C	/C	1	-1	C	-C	-1	1	-C	C	-1	1	/C	-/C	B
$\chi_{99}^{(62)}$	-B	/B	-/B	A	-A	/B	-/B	B	-B	/C	-/C	1	-1	-C	C	-1	1	C	-C	-1	1	-/C	/C	B
$\chi_{99}^{(63)}$	-/B	B	-B	-A	A	B	-B	/B	-/B	C	-C	1	-1	-/C	/C	-1	1	/C	-/C	-1	1	-C	C	/B
$\chi_{99}^{(64)}$	-/B	B	-B	A	-A	B	-B	/B	-/B	-C	C	1	-1	/C	-/C	-1	1	-/C	/C	-1	1	C	-C	/B
$\chi_{99}^{(65)}$	B	-/B	-/B	-1	-1	/B	/B	-B	-B	/B	/B	1	1	B	B	-1	-1	-B	-B	-1	-1	-/B	-/B	-B
$\chi_{99}^{(66)}$	/B	-B	-B	-1	-1	B	B	-/B	-/B	B	B	1	1	/B	/B	-1	-1	-/B	-/B	-1	-1	-B	-B	-/B
$\chi_{99}^{(67)}$	-B	/B	-/B	-1	1	/B	-/B	B	-B	/B	-/B	-1	1	B	-B	-1	1	B	-B	-1	1	/B	-/B	B
$\chi_{99}^{(68)}$	-/B	B	-B	-1	1	B	-B	/B	-/B	B	-B	-1	1	/B	-/B	-1	1	/B	-/B	-1	1	B	-B	/B
$\chi_{99}^{(69)}$	-B	-/B	-/B	-1	-1	-/B	-/B	-B	-B	/B	/B	1	1	B	B	1	1	B	B	1	1	/B	/B	-B
$\chi_{99}^{(70)}$	-/B	-B	-B	-1	-1	-B	-B	-/B	-/B	B	B	1	1	/B	/B	1	1	/B	/B	1	1	B	B	-/B
$\chi_{99}^{(71)}$	B	/B	-/B	-1	1	-/B	/B	B	-B	/B	-/B	-1	1	B	-B	1	-1	-B	B	1	-1	-/B	/B	B
$\chi_{99}^{(72)}$	/B	B	-B	-1	1	-B	B	/B	-/B	B	-B	-1	1	/B	-/B	1	-1	-/B	/B	1	-1	-B	B	/B
$\chi_{99}^{(73)}$	-B	/B	-/B	1	-1	/B	-/B	B	-B	-/B	/B	-1	1	-B	B	-1	1	-B	B	-1	1	-/B	/B	B
$\chi_{99}^{(74)}$	-/B	B	-B	1	-1	B	-B	/B	-/B	-B	B	-1	1	-/B	/B	-1	1	-/B	/B	-1	1	-B	B	/B
$\chi_{99}^{(75)}$	B	-/B	-/B	1	1	/B	/B	-B	-B	-/B	-/B	1	1	-B	-B	-1	-1	B	B	-1	-1	/B	/B	-B

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$\chi_{99}^{(76)}$	/B	-B	-B	1	1	B	B	-/B	-/B	-B	-B	1	1	-/B	-/B	-1	-1	/B	/B	-1	-1	B	B	-/B
$\chi_{99}^{(77)}$	B	/B	-/B	1	-1	-/B	/B	B	-B	-/B	/B	-1	1	-B	B	1	-1	B	-B	1	-1	/B	-/B	B
$\chi_{99}^{(78)}$	/B	B	-B	1	-1	-B	B	/B	-/B	-B	B	-1	1	-/B	/B	1	-1	/B	-/B	1	-1	B	-B	/B
$\chi_{99}^{(79)}$	-B	-/B	-/B	1	1	-/B	-/B	-B	-B	-/B	-/B	1	1	-B	-B	1	1	-B	-B	1	1	-/B	-/B	-B
$\chi_{99}^{(80)}$	-/B	-B	-B	1	1	-B	-B	-/B	-/B	-B	-B	1	1	-/B	-/B	1	1	-/B	-/B	1	1	-B	-B	-/B
$\chi_{99}^{(81)}$	-B	/B	/B	-A	-A	-/B	-/B	B	B	/C	/C	-1	-1	-C	-C	1	1	-C	-C	-1	-1	/C	/C	-B
$\chi_{99}^{(82)}$	-B	/B	/B	A	A	-/B	-/B	B	B	-/C	-/C	-1	-1	C	C	1	1	C	C	-1	-1	-/C	-/C	-B
$\chi_{99}^{(83)}$	-/B	B	B	-A	-A	-B	-B	/B	/B	-C	-C	-1	-1	/C	/C	1	1	/C	/C	-1	-1	-C	-C	-/B
$\chi_{99}^{(84)}$	-/B	B	B	A	A	-B	-B	/B	/B	C	C	-1	-1	-/C	-/C	1	1	-/C	-/C	-1	-1	C	C	-/B
$\chi_{99}^{(85)}$	B	-/B	/B	-A	A	-/B	/B	-B	B	/C	-/C	1	-1	-C	C	1	-1	C	-C	-1	1	-/C	/C	B
$\chi_{99}^{(86)}$	B	-/B	/B	A	-A	-/B	/B	-B	B	-/C	/C	1	-1	C	-C	1	-1	-C	C	-1	1	/C	-/C	B
$\chi_{99}^{(87)}$	/B	-B	B	-A	A	-B	B	-/B	/B	-C	C	1	-1	/C	-/C	1	-1	-/C	/C	-1	1	C	-C	/B
$\chi_{99}^{(88)}$	/B	-B	B	A	-A	-B	B	-/B	/B	C	-C	1	-1	-/C	/C	1	-1	/C	-/C	-1	1	-C	C	/B
$\chi_{99}^{(89)}$	B	/B	/B	-A	-A	/B	/B	B	B	/C	/C	-1	-1	-C	-C	-1	-1	C	C	1	1	-/C	-/C	-B
$\chi_{99}^{(90)}$	B	/B	/B	A	A	/B	/B	B	B	-/C	-/C	-1	-1	C	C	-1	-1	-C	-C	1	1	/C	/C	-B
$\chi_{99}^{(91)}$	/B	B	B	-A	-A	B	B	/B	/B	-C	-C	-1	-1	/C	/C	-1	-1	-/C	-/C	1	1	C	C	-/B
$\chi_{99}^{(92)}$	/B	B	B	A	A	B	B	/B	/B	C	C	-1	-1	-/C	-/C	-1	-1	/C	/C	1	1	-C	-C	-/B
$\chi_{99}^{(93)}$	-B	-/B	/B	-A	A	/B	-/B	-B	B	/C	-/C	1	-1	-C	C	-1	1	-C	C	1	-1	/C	-/C	B
$\chi_{99}^{(94)}$	-B	-/B	/B	A	-A	/B	-/B	-B	B	-/C	/C	1	-1	C	-C	-1	1	C	-C	1	-1	-/C	/C	B
$\chi_{99}^{(95)}$	-/B	-B	B	-A	A	B	-B	-/B	/B	-C	C	1	-1	/C	-/C	-1	1	/C	-/C	1	-1	-C	C	/B
$\chi_{99}^{(96)}$	-/B	-B	B	A	-A	B	-B	-/B	/B	C	-C	1	-1	-/C	/C	-1	1	-/C	/C	1	-1	C	-C	/B

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$\chi_{99}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{99}^{(2)}$	1	1	1	1	1	-1	-1	1	1	1	1	-1	-1	1	-1	-1	-1	1	1	1	1	1	1
$\chi_{99}^{(3)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{99}^{(4)}$	1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	1	1	-1	1	1	1	1	1	1	1	1
$\chi_{99}^{(5)}$	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	-1	-1	1	1	-1	1	-1	1	-1
$\chi_{99}^{(6)}$	1	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{99}^{(7)}$	1	1	1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{99}^{(8)}$	1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	-1	1	-1	1	-1	1
$\chi_{99}^{(9)}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{99}^{(10)}$	1	-1	-1	1	1	1	1	1	1	-1	-1	1	1	1	-1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{99}^{(11)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	-1	1	-1	1	-1	1	-1	1
$\chi_{99}^{(12)}$	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{99}^{(13)}$	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	-1	1	-1	-1	1	-1	1	-1	1
$\chi_{99}^{(14)}$	1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1
$\chi_{99}^{(15)}$	1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	1	1
$\chi_{99}^{(16)}$	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1
$\chi_{99}^{(17)}$	1	1	1	-A	-A	-A	-A	1	1	1	1	-A	-A	1	A	-A	-A	-A	-A	-A	-A	-A	-A	-A
$\chi_{99}^{(18)}$	1	1	1	A	A	A	A	1	1	1	1	A	A	1	-A	A	A	A	A	A	A	A	A	A
$\chi_{99}^{(19)}$	1	1	-1	A	-A	A	-A	-1	1	1	-1	A	-A	-1	A	A	-A	-A	A	-A	A	-A	A	A
$\chi_{99}^{(20)}$	1	1	-1	-A	A	-A	A	-1	1	1	-1	-A	A	-1	-A	-A	A	A	-A	A	-A	A	A	-A

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$\chi_{99}^{(21)}$	1	-1	-1	A	A	A	A	1	1	-1	-1	A	A	1	A	A	A	-A	-A	-A	-A	-A	-A
$\chi_{99}^{(22)}$	1	-1	-1	-A	-A	-A	-A	1	1	-1	-1	-A	-A	1	-A	-A	-A	A	A	A	A	A	A
$\chi_{99}^{(23)}$	1	-1	1	-A	A	-A	A	-1	1	-1	1	-A	A	-1	A	-A	A	-A	A	-A	A	-A	A
$\chi_{99}^{(24)}$	1	-1	1	A	-A	A	-A	-1	1	-1	1	A	-A	-1	-A	A	-A	A	-A	A	-A	A	-A
$\chi_{99}^{(25)}$	1	-1	-1	-A	-A	A	A	1	1	-1	-1	A	A	1	A	A	A	A	A	A	A	A	A
$\chi_{99}^{(26)}$	1	-1	-1	A	A	-A	-A	1	1	-1	-1	-A	-A	1	-A	-A	-A	-A	-A	-A	-A	-A	-A
$\chi_{99}^{(27)}$	1	-1	1	A	-A	-A	A	-1	1	-1	1	-A	A	-1	A	-A	A	A	-A	A	-A	A	-A
$\chi_{99}^{(28)}$	1	-1	1	-A	A	A	-A	-1	1	-1	1	A	-A	-1	-A	A	-A	-A	A	-A	A	-A	A
$\chi_{99}^{(29)}$	1	1	1	A	A	-A	-A	1	1	1	1	-A	-A	1	A	-A	-A	A	A	A	A	A	A
$\chi_{99}^{(30)}$	1	1	1	-A	-A	A	A	1	1	1	1	A	A	1	-A	A	A	-A	-A	-A	-A	-A	-A
$\chi_{99}^{(31)}$	1	1	-1	-A	A	A	-A	-1	1	1	-1	A	-A	-1	A	A	-A	A	-A	A	-A	A	-A
$\chi_{99}^{(32)}$	1	1	-1	A	-A	-A	A	-1	1	1	-1	-A	A	-1	-A	-A	A	-A	A	-A	A	-A	A
$\chi_{99}^{(33)}$	-B	-/B	-/B	1	1	-1	-1	-/B	-/B	-B	-B	/B	/B	1	B	B	B	1	1	-/B	-/B	-B	-B
$\chi_{99}^{(34)}$	-/B	-B	-B	1	1	-1	-1	-B	-B	-/B	-/B	B	B	1	/B	/B	/B	1	1	-B	-B	-/B	-/B
$\chi_{99}^{(35)}$	-B	-/B	/B	-1	1	1	-1	/B	-/B	-B	B	-/B	/B	-1	B	-B	B	1	-1	-/B	/B	-B	B
$\chi_{99}^{(36)}$	-/B	-B	B	-1	1	1	-1	B	-B	-/B	/B	-B	B	-1	/B	-/B	/B	1	-1	-B	B	-/B	/B
$\chi_{99}^{(37)}$	-B	/B	/B	-1	-1	1	1	-/B	-/B	B	B	-/B	-/B	1	B	-B	-B	1	1	-/B	-/B	-B	-B
$\chi_{99}^{(38)}$	-/B	B	B	-1	-1	1	1	-B	-B	/B	/B	-B	-B	1	/B	-/B	-/B	1	1	-B	-B	-/B	-/B
$\chi_{99}^{(39)}$	-B	/B	-/B	1	-1	-1	1	/B	-/B	B	-B	/B	-/B	-1	B	B	-B	1	-1	-/B	/B	-B	B
$\chi_{99}^{(40)}$	-/B	B	-B	1	-1	-1	1	B	-B	/B	-/B	B	-B	-1	/B	/B	-/B	1	-1	-B	B	-/B	/B
$\chi_{99}^{(41)}$	-B	-/B	/B	1	-1	-1	1	/B	-/B	-B	B	/B	-/B	-1	-B	B	-B	-1	1	/B	-/B	B	-B
$\chi_{99}^{(42)}$	-/B	-B	B	1	-1	-1	1	B	-B	-/B	/B	B	-B	-1	-/B	/B	-/B	-1	1	B	-B	/B	-/B
$\chi_{99}^{(43)}$	-B	-/B	-/B	-1	-1	1	1	-/B	-/B	-B	-B	-/B	-/B	1	-B	-B	-B	-1	-1	/B	/B	B	B
$\chi_{99}^{(44)}$	-/B	-B	-B	-1	-1	1	1	-B	-B	-/B	-/B	-B	-B	1	-/B	-/B	-/B	-1	-1	B	B	/B	/B
$\chi_{99}^{(45)}$	-B	/B	-/B	-1	1	1	-1	/B	-/B	B	-B	-/B	/B	-1	-B	-B	B	-1	1	/B	-/B	B	-B
$\chi_{99}^{(46)}$	-/B	B	-B	-1	1	1	-1	B	-B	/B	-/B	-B	B	-1	-/B	-/B	/B	-1	1	B	-B	/B	-/B
$\chi_{99}^{(47)}$	-B	/B	/B	1	1	-1	-1	-/B	-/B	B	B	/B	/B	1	-B	B	B	-1	-1	/B	/B	B	B
$\chi_{99}^{(48)}$	-/B	B	B	1	1	-1	-1	-B	-B	/B	/B	B	B	1	-/B	/B	/B	-1	-1	B	B	/B	/B
$\chi_{99}^{(49)}$	-B	-/B	-/B	-A	-A	-A	-A	-/B	-/B	-B	-B	/C	/C	1	C	-C	-C	-A	-A	/C	/C	-C	-C
$\chi_{99}^{(50)}$	-B	-/B	-/B	A	A	A	A	-/B	-/B	-B	-B	-/C	-/C	1	-C	C	C	A	A	-/C	-/C	C	C
$\chi_{99}^{(51)}$	-/B	-B	-B	-A	-A	-A	-A	-B	-B	-/B	-/B	-C	-C	1	-/C	/C	/C	-A	-A	-C	-C	/C	/C
$\chi_{99}^{(52)}$	-/B	-B	-B	A	A	A	A	-B	-B	-/B	-/B	C	C	1	/C	-/C	-/C	A	A	C	C	-/C	-/C
$\chi_{99}^{(53)}$	-B	-/B	/B	A	-A	A	-A	/B	-/B	-B	B	-/C	/C	-1	C	C	-C	-A	A	/C	-/C	-C	C
$\chi_{99}^{(54)}$	-B	-/B	/B	-A	A	-A	A	/B	-/B	-B	B	/C	-/C	-1	-C	-C	C	A	-A	-/C	/C	C	-C
$\chi_{99}^{(55)}$	-/B	-B	B	A	-A	A	-A	B	-B	-/B	/B	C	-C	-1	-/C	-/C	/C	-A	A	-C	C	/C	-/C
$\chi_{99}^{(56)}$	-/B	-B	B	-A	A	-A	A	B	-B	-/B	/B	-C	C	-1	/C	/C	-/C	A	-A	C	-C	-/C	/C
$\chi_{99}^{(57)}$	-B	/B	/B	A	A	A	A	-/B	-/B	B	B	-/C	-/C	1	C	C	C	-A	-A	/C	/C	-C	-C
$\chi_{99}^{(58)}$	-B	/B	/B	-A	-A	-A	-A	-/B	-/B	B	B	/C	/C	1	-C	-C	-C	A	A	-/C	-/C	C	C
$\chi_{99}^{(59)}$	-/B	B	B	A	A	A	A	-B	-B	/B	/B	C	C	1	-/C	-/C	-/C	-A	-A	-C	-C	/C	/C
$\chi_{99}^{(60)}$	-/B	B	B	-A	-A	-A	-A	-B	-B	/B	/B	-C	-C	1	/C	/C	/C	A	A	C	C	-/C	-/C
$\chi_{99}^{(61)}$	-B	/B	-/B	-A	A	-A	A	/B	-/B	B	-B	/C	-/C	-1	C	-C	C	-A	A	/C	-/C	-C	C
$\chi_{99}^{(62)}$	-B	/B	-/B	A	-A	A	-A	/B	-/B	B	-B	-/C	/C	-1	-C	C	-C	A	-A	-/C	/C	C	-C
$\chi_{99}^{(63)}$	-/B	B	-B	-A	A	-A	A	B	-B	/B	-/B	-C	C	-1	-/C	/C	-/C	-A	A	-C	C	/C	-/C
$\chi_{99}^{(64)}$	-/B	B	-B	A	-A	A	-A	B	-B	/B	-/B	C	-C	-1	/C	-/C	/C	A	-A	C	-C	-/C	/C
$\chi_{99}^{(65)}$	-B	/B	/B	1	1	1	1	-/B	-/B	B	B	-/B	-/B	1	B	-B	-B	-1	-1	/B	/B	B	B

	80														90								
$\chi_{99}^{(66)}$	-/B	B	B	1	1	1	1	-B	-B	/B	/B	-B	-B	1	/B	-/B	-/B	-1	-1	B	B	/B	/B
$\chi_{99}^{(67)}$	-B	/B	-/B	-1	1	-1	1	/B	-/B	B	-B	/B	-/B	-1	B	B	-B	-1	1	/B	-/B	B	-B
$\chi_{99}^{(68)}$	-/B	B	-B	-1	1	-1	1	B	-B	/B	-/B	B	-B	-1	/B	/B	-/B	-1	1	B	-B	/B	-/B
$\chi_{99}^{(69)}$	-B	-/B	-/B	-1	-1	-1	-1	-/B	-/B	-B	-B	/B	/B	1	B	B	B	-1	-1	/B	/B	B	B
$\chi_{99}^{(70)}$	-/B	-B	-B	-1	-1	-1	-1	-B	-B	-/B	-/B	B	B	1	/B	/B	/B	-1	-1	B	B	/B	/B
$\chi_{99}^{(71)}$	-B	-/B	/B	1	-1	1	-1	/B	-/B	-B	B	-/B	/B	-1	B	-B	B	-1	1	/B	-/B	B	-B
$\chi_{99}^{(72)}$	-/B	-B	B	1	-1	1	-1	B	-B	-/B	/B	-B	B	-1	/B	-/B	/B	-1	1	B	-B	/B	-/B
$\chi_{99}^{(73)}$	-B	/B	-/B	1	-1	1	-1	/B	-/B	B	-B	-/B	/B	-1	-B	-B	B	1	-1	-/B	/B	-B	B
$\chi_{99}^{(74)}$	-/B	B	-B	1	-1	1	-1	B	-B	/B	-/B	-B	B	-1	-/B	-/B	/B	1	-1	-B	B	-/B	/B
$\chi_{99}^{(75)}$	-B	/B	/B	-1	-1	-1	-1	-/B	-/B	B	B	/B	/B	1	-B	B	B	1	1	-/B	-/B	-B	-B
$\chi_{99}^{(76)}$	-/B	B	B	-1	-1	-1	-1	-B	-B	/B	/B	B	B	1	-/B	/B	/B	1	1	-B	-B	-/B	-/B
$\chi_{99}^{(77)}$	-B	-/B	/B	-1	1	-1	1	/B	-/B	-B	B	/B	-/B	-1	-B	B	-B	1	-1	-/B	/B	-B	B
$\chi_{99}^{(78)}$	-/B	-B	B	-1	1	-1	1	B	-B	-/B	/B	B	-B	-1	-/B	/B	-/B	1	-1	-B	B	-/B	/B
$\chi_{99}^{(79)}$	-B	-/B	-/B	1	1	1	1	-/B	-/B	-B	-B	-/B	-/B	1	-B	-B	-B	1	1	-/B	-/B	-B	-B
$\chi_{99}^{(80)}$	-/B	-B	-B	1	1	1	1	-B	-B	-/B	-/B	-B	-B	1	-/B	-/B	-/B	1	1	-B	-B	-/B	-/B
$\chi_{99}^{(81)}$	-B	/B	/B	-A	-A	A	A	-/B	-/B	B	B	-/C	-/C	1	C	C	C	A	A	-/C	-/C	C	C
$\chi_{99}^{(82)}$	-B	/B	/B	A	A	-A	-A	-/B	-/B	B	B	/C	/C	1	-C	-C	-C	-A	-A	/C	/C	-C	-C
$\chi_{99}^{(83)}$	-/B	B	B	-A	-A	A	A	-B	-B	/B	/B	C	C	1	-/C	-/C	-/C	A	A	C	C	-/C	-/C
$\chi_{99}^{(84)}$	-/B	B	B	A	A	-A	-A	-B	-B	/B	/B	-C	-C	1	/C	/C	/C	-A	-A	-C	-C	/C	/C
$\chi_{99}^{(85)}$	-B	/B	-/B	A	-A	-A	A	/B	-/B	B	-B	/C	-/C	-1	C	-C	C	A	-A	-/C	/C	C	-C
$\chi_{99}^{(86)}$	-B	/B	-/B	-A	A	A	-A	/B	-/B	B	-B	-/C	/C	-1	-C	C	-C	-A	A	/C	-/C	-C	C
$\chi_{99}^{(87)}$	-/B	B	-B	A	-A	-A	A	B	-B	/B	-/B	-C	C	-1	-/C	/C	-/C	A	-A	C	-C	-/C	/C
$\chi_{99}^{(88)}$	-/B	B	-B	-A	A	A	-A	B	-B	/B	-/B	C	-C	-1	/C	-/C	/C	-A	A	-C	C	/C	-/C
$\chi_{99}^{(89)}$	-B	-/B	-/B	A	A	-A	-A	-/B	-/B	-B	-B	/C	/C	1	C	-C	-C	A	A	-/C	-/C	C	C
$\chi_{99}^{(90)}$	-B	-/B	-/B	-A	-A	A	A	-/B	-/B	-B	-B	-/C	-/C	1	-C	C	C	-A	-A	/C	/C	-C	-C
$\chi_{99}^{(91)}$	-/B	-B	-B	A	A	-A	-A	-B	-B	-/B	-/B	-C	-C	1	-/C	/C	/C	A	A	C	C	-/C	-/C
$\chi_{99}^{(92)}$	-/B	-B	-B	-A	-A	A	A	-B	-B	-/B	-/B	C	C	1	/C	-/C	-/C	-A	-A	-C	-C	/C	/C
$\chi_{99}^{(93)}$	-B	-/B	/B	-A	A	A	-A	/B	-/B	-B	B	-/C	/C	-1	C	C	-C	A	-A	-/C	/C	C	-C
$\chi_{99}^{(94)}$	-B	-/B	/B	A	-A	-A	A	/B	-/B	-B	B	/C	-/C	-1	-C	-C	C	-A	A	/C	-/C	-C	C
$\chi_{99}^{(95)}$	-/B	-B	B	-A	A	A	-A	B	-B	-/B	/B	C	-C	-1	-/C	-/C	/C	A	-A	C	-C	-/C	/C
$\chi_{99}^{(96)}$	-/B	-B	B	A	-A	-A	A	B	-B	-/B	/B	-C	C	-1	/C	/C	-/C	-A	A	-C	C	/C	-/C

where A = E(4) = ER(-1) = i, B = -E(3) = (1-ER(-3))/2 = -b3, C = $E(12)^7$.

The generators of $G^{s_{100}}$ are:

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 1 & -2 & 1 \\ -1 & 1 & 1 & -1 & 0 & 1 & -3 & 3 \\ -1 & 2 & 1 & -2 & 1 & 1 & -4 & 3 \\ -2 & 2 & 1 & -2 & 1 & 2 & -6 & 5 \\ -1 & 1 & 1 & -2 & 1 & 2 & -5 & 4 \\ 0 & 1 & 0 & -1 & 0 & 2 & -4 & 3 \\ 0 & 1 & 0 & -1 & 0 & 1 & -2 & 2 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & 1 & -1 \\ 0 & 1 & 2 & -2 & 0 & 0 & 2 & -2 \\ 0 & 0 & 3 & -2 & 0 & 0 & 2 & -2 \\ 0 & 0 & 4 & -3 & 0 & 0 & 4 & -4 \\ 0 & 0 & 3 & -2 & 0 & 0 & 3 & -4 \\ 0 & 0 & 2 & -1 & 0 & -1 & 3 & -3 \\ 0 & 0 & 1 & 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & 1 & 0 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & -2 & 2 \\ 0 & 1 & 0 & 0 & 0 & 0 & -3 & 3 \\ 0 & 0 & 1 & 0 & 0 & 0 & -4 & 4 \\ 0 & 0 & 0 & 1 & 0 & 0 & -6 & 6 \\ 0 & 0 & 0 & 0 & 1 & 0 & -5 & 5 \\ 0 & 0 & 0 & 0 & 0 & 1 & -4 & 4 \\ 0 & 0 & 0 & 0 & 0 & 0 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & 1 & 0 \\ 0 & 1 & -1 & 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 2 & -2 & 0 & 2 & 0 \\ 0 & 0 & -2 & 3 & -2 & 0 & 2 & 0 \\ 0 & 0 & -2 & 2 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \\ 0 & -1 & 0 & 0 & 2 & -2 & 2 & -2 \\ 0 & -2 & 1 & 0 & 2 & -2 & 2 & -2 \\ 0 & -3 & 0 & 1 & 3 & -3 & 3 & -3 \\ 0 & -2 & 0 & 0 & 3 & -2 & 2 & -2 \\ 0 & -2 & 0 & 0 & 2 & -1 & 2 & -2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & -1 & 2 & -1 & 1 & 0 & 0 \\ -1 & -1 & 0 & 2 & -1 & 1 & 0 & 0 \\ -1 & -1 & 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{100}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & -1 & 0 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \\ 2 & 0 & 0 & -1 & 0 & 2 & 0 & 0 \\ 2 & 0 & 0 & -1 & 0 & 2 & 0 & -1 \\ 1 & 0 & 0 & 0 & -1 & 2 & 0 & -1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \\ 1 & 0 & 1 & 0 & -1 & 1 & 0 & -1 \\ 2 & 0 & 0 & 1 & -2 & 2 & 0 & -2 \\ 1 & 0 & 0 & 1 & -1 & 1 & 0 & -2 \\ 0 & 0 & 0 & 1 & -1 & 1 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 1 & -2 & 1 \\ -1 & 1 & 1 & -1 & 0 & 1 & -3 & 3 \\ -1 & 2 & 1 & -2 & 1 & 1 & -4 & 3 \\ -2 & 2 & 1 & -2 & 1 & 2 & -6 & 5 \\ -1 & 1 & 1 & -2 & 1 & 2 & -5 & 4 \\ 0 & 1 & 0 & -1 & 0 & 2 & -4 & 3 \\ 0 & 1 & 0 & -1 & 0 & 1 & -2 & 2 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 1 & -2 & 1 \\ 0 & 1 & 1 & -1 & -1 & 2 & -3 & 2 \\ 0 & 2 & 1 & -2 & 0 & 2 & -4 & 2 \\ 0 & 2 & 1 & -2 & -1 & 4 & -6 & 3 \\ 0 & 1 & 1 & -1 & -1 & 3 & -5 & 2 \\ 0 & 1 & 0 & 0 & -1 & 2 & -4 & 2 \\ 0 & 1 & 0 & 0 & -1 & 1 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 1 & -2 & 1 \\ -1 & 1 & 1 & 0 & -1 & 1 & -3 & 2 \\ -1 & 2 & 1 & -1 & 0 & 1 & -4 & 2 \\ -2 & 2 & 1 & 0 & -1 & 2 & -6 & 3 \\ -2 & 1 & 1 & 0 & 0 & 1 & -5 & 3 \\ -1 & 1 & 0 & 0 & 0 & 1 & -4 & 3 \\ -1 & 1 & 0 & 0 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 2 & -1 \\ 0 & -1 & -1 & 1 & 1 & -2 & 3 & -2 \\ 0 & -2 & -1 & 2 & 0 & -2 & 4 & -2 \\ 0 & -3 & -2 & 3 & 1 & -3 & 5 & -3 \\ 0 & -2 & -2 & 2 & 1 & -2 & 4 & -2 \\ 0 & -2 & -1 & 1 & 1 & -1 & 3 & -2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 2 & -1 \\ 1 & -1 & -1 & 0 & 1 & -1 & 3 & -2 \\ 1 & -2 & -1 & 1 & 0 & -1 & 4 & -2 \\ 2 & -3 & -2 & 1 & 1 & -1 & 5 & -3 \\ 2 & -2 & -2 & 1 & 0 & 0 & 4 & -3 \\ 1 & -2 & -1 & 1 & 0 & 0 & 3 & -3 \\ 1 & -1 & 0 & 0 & 0 & 0 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 2 & -1 \\ 1 & -1 & -1 & 1 & 0 & -1 & 3 & -3 \\ 1 & -2 & -1 & 2 & -1 & -1 & 4 & -3 \\ 2 & -3 & -2 & 3 & -1 & -1 & 5 & -5 \\ 1 & -2 & -2 & 3 & -1 & -1 & 4 & -4 \\ 0 & -2 & -1 & 2 & 0 & -1 & 3 & -3 \\ 0 & -1 & 0 & 1 & 0 & -1 & 2 & -2 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ -1 & 0 & -1 & 0 & 1 & -1 & 0 & 1 \\ -2 & -1 & -1 & 0 & 2 & -1 & -1 & 2 \\ -1 & -1 & -1 & 0 & 1 & 0 & -1 & 2 \\ 0 & -1 & -1 & 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 1 & -1 & 0 \\ 0 & -1 & -1 & 1 & -1 & 1 & -1 & 0 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 1 & 0 & -1 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \\ -2 & -1 & -1 & 2 & 0 & -1 & -1 & 0 \\ -2 & -1 & -1 & 2 & 0 & -1 & -1 & 1 \\ -1 & -1 & -1 & 1 & 1 & -1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 1 & -1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & -1 & 1 & -1 & 2 & -2 \\ -1 & 1 & 1 & -1 & 1 & -2 & 3 & -2 \\ 0 & 1 & 0 & -1 & 2 & -3 & 4 & -3 \\ -1 & 2 & 1 & -2 & 3 & -4 & 5 & -4 \\ -1 & 1 & 1 & -2 & 3 & -3 & 4 & -3 \\ 0 & 1 & 1 & -2 & 2 & -2 & 3 & -2 \\ 0 & 1 & 0 & -1 & 1 & -1 & 2 & -1 \\ 0 & 1 & 0 & -1 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 1 & -1 & 2 & -2 \\ 0 & 1 & 1 & -2 & 1 & -1 & 3 & -2 \\ 1 & 1 & 0 & -2 & 2 & -2 & 4 & -3 \\ 1 & 2 & 1 & -4 & 3 & -2 & 5 & -4 \\ 1 & 1 & 1 & -3 & 2 & -1 & 4 & -4 \\ 1 & 1 & 1 & -2 & 1 & -1 & 3 & -3 \\ 1 & 1 & 0 & -1 & 0 & 0 & 2 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 1 & -1 & 2 & -2 \\ 0 & 1 & 1 & -1 & 0 & -1 & 3 & -3 \\ 1 & 1 & 0 & -1 & 1 & -2 & 4 & -4 \\ 1 & 2 & 1 & -2 & 1 & -2 & 5 & -6 \\ 0 & 1 & 1 & -1 & 1 & -2 & 4 & -5 \\ 0 & 1 & 1 & -1 & 1 & -2 & 3 & -3 \\ 0 & 1 & 0 & 0 & 0 & -1 & 2 & -2 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -2 & 0 & 2 \\ -1 & -1 & 2 & -1 & 1 & -2 & 0 & 2 \\ -1 & -1 & 3 & -2 & 2 & -3 & -1 & 4 \\ 0 & -1 & 2 & -2 & 2 & -2 & -1 & 3 \\ 0 & 0 & 2 & -2 & 1 & -1 & -1 & 2 \\ 0 & 0 & 1 & -1 & 0 & 0 & -1 & 2 \\ 0 & 0 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 0 & -1 & 0 & 1 \\ 0 & -1 & 2 & -1 & 0 & -1 & 0 & 1 \\ 1 & -1 & 3 & -2 & 0 & -1 & -1 & 2 \\ 1 & -1 & 2 & -1 & 0 & -1 & -1 & 1 \\ 0 & 0 & 2 & -1 & 0 & -1 & -1 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -2 & 0 & 1 \\ -1 & -1 & 2 & 0 & 0 & -2 & 0 & 1 \\ -1 & -1 & 3 & 0 & 0 & -3 & -1 & 2 \\ -1 & -1 & 2 & 0 & 1 & -3 & -1 & 2 \\ -1 & 0 & 2 & -1 & 1 & -2 & -1 & 2 \\ -1 & 0 & 1 & 0 & 0 & -1 & -1 & 2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & 1 & -1 \\ 0 & 1 & 2 & -2 & 0 & 0 & 2 & -2 \\ 0 & 0 & 3 & -2 & 0 & 0 & 2 & -2 \\ 0 & 0 & 4 & -3 & 0 & 0 & 4 & -4 \\ 0 & 0 & 3 & -2 & 0 & 0 & 3 & -4 \\ 0 & 0 & 2 & -1 & 0 & -1 & 3 & -3 \\ 0 & 0 & 1 & 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & 1 & 0 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 2 & -1 & 0 & -1 & 2 & -2 \\ -1 & 0 & 3 & -1 & 0 & -1 & 2 & -2 \\ -2 & 0 & 4 & -1 & 0 & -2 & 4 & -4 \\ -2 & 0 & 3 & -1 & 1 & -2 & 3 & -3 \\ -1 & 0 & 2 & -1 & 1 & -2 & 3 & -2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 2 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 2 & -2 & 1 & -1 & 2 & -1 \\ -1 & 0 & 3 & -2 & 1 & -1 & 2 & -1 \\ -2 & 0 & 4 & -3 & 2 & -2 & 4 & -2 \\ -1 & 0 & 3 & -3 & 2 & -1 & 3 & -2 \\ 0 & 0 & 2 & -2 & 1 & -1 & 3 & -2 \\ 0 & 0 & 1 & -1 & 0 & 0 & 2 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & -1 & 1 \\ 1 & 1 & 1 & -1 & 0 & -1 & -1 & 1 \\ 1 & 2 & 1 & -2 & 1 & -1 & -2 & 1 \\ 2 & 2 & 1 & -2 & 1 & -2 & -2 & 1 \\ 1 & 1 & 1 & -1 & 1 & -2 & -2 & 1 \\ 0 & 1 & 1 & -1 & 1 & -2 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 & -1 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & -1 & 1 \\ 0 & 1 & 1 & -1 & 1 & -2 & -1 & 2 \\ 0 & 2 & 1 & -2 & 2 & -2 & -2 & 2 \\ 0 & 2 & 1 & -2 & 3 & -4 & -2 & 3 \\ 0 & 1 & 1 & -2 & 3 & -3 & -2 & 3 \\ 0 & 1 & 1 & -2 & 2 & -2 & -1 & 2 \\ 0 & 1 & 0 & -1 & 1 & -1 & -1 & 2 \\ 0 & 1 & 0 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & -1 & 1 \\ 1 & 1 & 1 & -2 & 1 & -1 & -1 & 2 \\ 1 & 2 & 1 & -3 & 2 & -1 & -2 & 2 \\ 2 & 2 & 1 & -4 & 3 & -2 & -2 & 3 \\ 2 & 1 & 1 & -3 & 2 & -1 & -2 & 2 \\ 1 & 1 & 1 & -2 & 1 & -1 & -1 & 1 \\ 1 & 1 & 0 & -1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 2 & -1 \\ 0 & 1 & 1 & -1 & -1 & 0 & 3 & -2 \\ 0 & 0 & 1 & 0 & -2 & 0 & 4 & -2 \\ 0 & 1 & 2 & -1 & -3 & 1 & 5 & -3 \\ 0 & 1 & 1 & 0 & -3 & 1 & 4 & -3 \\ 0 & 1 & 1 & 0 & -2 & 0 & 3 & -2 \\ 0 & 0 & 1 & 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & 1 & 0 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 2 & -1 \\ -1 & 1 & 1 & 0 & -1 & -1 & 3 & -2 \\ -1 & 0 & 1 & 1 & -2 & -1 & 4 & -2 \\ -2 & 1 & 2 & 1 & -3 & -1 & 5 & -3 \\ -2 & 1 & 1 & 1 & -2 & -1 & 4 & -2 \\ -1 & 1 & 1 & 0 & -1 & -1 & 3 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 2 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 2 & -1 \\ -1 & 1 & 1 & -1 & 0 & -1 & 3 & -1 \\ -1 & 0 & 1 & 0 & -1 & -1 & 4 & -1 \\ -2 & 1 & 2 & -1 & -1 & -1 & 5 & -1 \\ -1 & 1 & 1 & -1 & -1 & 0 & 4 & -1 \\ 0 & 1 & 1 & -1 & -1 & 0 & 3 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 2 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 0 & 1 \\ 1 & 1 & 0 & 0 & -1 & -1 & 0 & 1 \\ 1 & 2 & -1 & 0 & -1 & -1 & 0 & 1 \\ 2 & 3 & -1 & 0 & -2 & -1 & -1 & 2 \\ 1 & 2 & -1 & 1 & -2 & -1 & -1 & 2 \\ 0 & 2 & 0 & 0 & -1 & -1 & -1 & 2 \\ 0 & 1 & 0 & 0 & 0 & -1 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & 0 & 0 & 0 & -2 & 0 & 2 \\ 0 & 2 & -1 & 0 & 0 & -2 & 0 & 2 \\ 0 & 3 & -1 & 0 & 0 & -3 & -1 & 4 \\ 0 & 2 & -1 & 0 & 0 & -2 & -1 & 4 \\ 0 & 2 & 0 & -1 & 0 & -1 & -1 & 3 \\ 0 & 1 & 0 & -1 & 1 & -1 & -1 & 2 \\ 0 & 1 & 0 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 0 & 1 \\ 1 & 1 & 0 & -1 & 0 & -1 & 0 & 2 \\ 1 & 2 & -1 & -1 & 0 & -1 & 0 & 2 \\ 2 & 3 & -1 & -2 & 0 & -1 & -1 & 4 \\ 2 & 2 & -1 & -1 & -1 & 0 & -1 & 3 \\ 1 & 2 & 0 & -1 & -1 & 0 & -1 & 2 \\ 1 & 1 & 0 & -1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1&0&0&0&0&0&-2&2\\ 0&1&0&0&0&0&-3&3\\ 0&0&1&0&0&0&-4&4\\ 0&0&0&1&0&0&-6&6\\ 0&0&0&0&1&0&-5&5\\ 0&0&0&0&0&1&-4&4\\ 0&0&0&0&0&0&-2&3\\ 0&0&0&0&0&0&-1&2 \end{pmatrix}, \begin{pmatrix} 1&0&0&0&0&0&-2&2\\ 1&1&0&-1&0&1&-3&3\\ 1&0&1&-1&0&1&-4&4\\ 2&0&0&-1&0&2&-6&6\\ 2&0&0&-1&0&2&-5&4\\ 1&0&0&0&-1&2&-4&3\\ 1&0&0&0&-1&1&-2&2\\ 1&0&0&0&-1&1&-1&1 \end{pmatrix}, \begin{pmatrix} 1&0&0&0&0&0&-2&2\\ 1&1&0&0&-1&1&-3&2\\ 1&0&1&0&-1&1&-4&3\\ 2&0&0&1&-2&2&-6&4\\ 1&0&0&1&-1&1&-5&3\\ 0&0&0&1&-1&1&-4&3\\ 0&0&0&1&-1&0&-2&2\\ 0&0&0&1&-1&0&-1&1 \end{pmatrix},$$

$$\begin{pmatrix} -1&1&1&-1&0&1&0&-1\\ -1&1&1&-1&0&1&0&0\\ -1&2&1&-2&1&1&0&-1\\ -2&2&1&-2&1&2&0&-1\\ -1&1&1&-2&1&2&0&-1\\ 0&1&0&-1&0&2&0&-1\\ 0&1&0&-1&0&1&1&-1\\ 0&1&0&-1&0&1&0&0 \end{pmatrix}, \begin{pmatrix} -1&1&1&-1&0&1&0&-1\\ 0&1&1&-1&-1&2&0&-1\\ 0&2&1&-2&0&2&0&-2\\ 0&2&1&-2&-1&4&0&-3\\ 0&1&1&-1&-1&3&0&-3\\ 0&1&0&0&-1&2&0&-2\\ 0&1&0&0&-1&1&1&-2\\ 0&1&0&0&-1&1&0&-1 \end{pmatrix}, \begin{pmatrix} -1&1&1&-1&0&1&0&-1\\ -1&1&1&0&-1&1&0&-1\\ -1&2&1&-1&0&1&0&-2\\ -2&2&1&0&-1&2&0&-3\\ -2&1&1&0&0&1&0&-2\\ -1&1&0&0&0&1&0&-1\\ -1&1&0&0&0&0&1&-1\\ -1&1&0&0&0&0&0&0 \end{pmatrix},$$

$$\begin{pmatrix} 1&-1&-1&1&0&-1&0&1\\ 0&-1&-1&1&1&-2&0&1\\ 0&-2&-1&2&0&-2&0&2\\ 0&-3&-2&3&1&-3&-1&3\\ 0&-2&-2&2&1&-2&-1&3\\ 0&-2&-1&1&1&-1&-1&2\\ 0&-1&0&0&1&-1&-1&2\\ 0&-1&0&0&1&-1&0&1 \end{pmatrix}, \begin{pmatrix} 1&-1&-1&1&0&-1&0&1\\ 1&-1&-1&0&1&-1&0&1\\ 1&-2&-1&1&0&-1&0&2\\ 2&-3&-2&1&1&-1&-1&3\\ 2&-2&-2&1&0&0&-1&2\\ 1&-2&-1&1&0&0&-1&1\\ 1&-1&0&0&0&0&-1&1\\ 1&-1&0&0&0&0&0&0 \end{pmatrix}, \begin{pmatrix} 1&-1&-1&1&0&-1&0&1\\ 1&-1&-1&1&0&-1&0&0\\ 1&-2&-1&2&-1&-1&0&1\\ 2&-3&-2&3&-1&-1&-1&1\\ 1&-2&-2&3&-1&-1&-1&1\\ 0&-2&-1&2&0&-1&-1&1\\ 0&-1&0&1&0&-1&-1&1\\ 0&-1&0&1&0&-1&0&0 \end{pmatrix},$$

$$\begin{pmatrix} -1&0&0&0&0&0&2&-2\\ -1&-1&0&0&1&-1&3&-2\\ -1&0&-1&0&1&-1&4&-3\\ -2&-1&-1&0&2&-1&5&-4\\ -1&-1&-1&0&1&0&4&-3\\ 0&-1&-1&0&1&0&3&-3\\ 0&0&0&-1&1&0&2&-2\\ 0&0&0&-1&1&0&1&-1 \end{pmatrix}, \begin{pmatrix} -1&0&0&0&0&0&2&-2\\ 0&-1&0&0&0&0&3&-3\\ 0&0&-1&0&0&0&4&-4\\ 0&-1&-1&0&0&1&5&-6\\ 0&-1&-1&1&-1&1&4&-5\\ 0&-1&-1&1&0&0&3&-4\\ 0&0&0&0&0&0&2&-3\\ 0&0&0&0&0&0&1&-2 \end{pmatrix}, \begin{pmatrix} -1&0&0&0&0&0&2&-2\\ -1&-1&0&1&0&-1&3&-3\\ -1&0&-1&1&0&-1&4&-4\\ -2&-1&-1&2&0&-1&5&-6\\ -2&-1&-1&2&0&-1&4&-4\\ -1&-1&-1&1&1&-1&3&-3\\ -1&0&0&0&1&-1&2&-2\\ -1&0&0&0&1&-1&1&-1 \end{pmatrix},$$

$$\begin{pmatrix} 0&1&0&-1&1&-1&0&0\\ -1&1&1&-1&1&-2&0&1\\ 0&1&0&-1&2&-3&0&1\\ -1&2&1&-2&3&-4&-1&2\\ -1&1&1&-2&3&-3&-1&2\\ 0&1&1&-2&2&-2&-1&2\\ 0&1&0&-1&1&-1&-1&2\\ 0&1&0&-1&1&-1&0&1 \end{pmatrix}, \begin{pmatrix} 0&1&0&-1&1&-1&0&0\\ 0&1&1&-2&1&-1&0&1\\ 1&1&0&-2&2&-2&0&1\\ 1&2&1&-4&3&-2&-1&2\\ 1&1&1&-3&2&-1&-1&1\\ 1&1&1&-2&1&-1&-1&1\\ 1&1&0&-1&0&0&-1&1\\ 1&1&0&-1&0&0&0&0 \end{pmatrix}, \begin{pmatrix} 0&1&0&-1&1&-1&0&0\\ 0&1&1&-1&0&-1&0&0\\ 1&1&0&-1&1&-2&0&0\\ 1&2&1&-2&1&-2&-1&0\\ 0&1&1&-1&1&-2&-1&0\\ 0&1&1&-1&1&-2&-1&1\\ 0&1&0&0&0&-1&-1&1\\ 0&1&0&0&0&-1&0&0 \end{pmatrix},$$

$$\begin{pmatrix} 0&-1&1&0&0&-1&2&-1\\ 0&0&1&-1&1&-2&3&-1\\ -1&-1&2&-1&1&-2&4&-2\\ -1&-1&3&-2&2&-3&5&-2\\ 0&-1&2&-2&2&-2&4&-2\\ 0&0&2&-2&1&-1&3&-2\\ 0&0&1&-1&0&0&2&-1\\ 0&0&1&-1&0&0&1&0 \end{pmatrix}, \begin{pmatrix} 0&-1&1&0&0&-1&2&-1\\ 1&0&1&-1&0&-1&3&-2\\ 0&-1&2&-1&0&-1&4&-3\\ 1&-1&3&-2&0&-1&5&-4\\ 1&-1&2&-1&0&-1&4&-4\\ 0&0&2&-1&0&-1&3&-3\\ 0&0&1&0&-1&0&2&-2\\ 0&0&1&0&-1&0&1&-1 \end{pmatrix}, \begin{pmatrix} 0&-1&1&0&0&-1&2&-1\\ 0&0&1&0&0&-2&3&-2\\ -1&-1&2&0&0&-2&4&-3\\ -1&-1&3&0&0&-3&5&-4\\ -1&-1&2&0&1&-3&4&-3\\ -1&0&2&-1&1&-2&3&-2\\ -1&0&1&0&0&-1&2&-1\\ -1&0&1&0&0&-1&1&0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & -1 & 1 \\ 0 & 1 & 2 & -2 & 0 & 0 & -1 & 1 \\ 0 & 0 & 3 & -2 & 0 & 0 & -2 & 2 \\ 0 & 0 & 4 & -3 & 0 & 0 & -2 & 2 \\ 0 & 0 & 3 & -2 & 0 & 0 & -2 & 1 \\ 0 & 0 & 2 & -1 & 0 & -1 & -1 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & -1 & 1 \\ -1 & 1 & 2 & -1 & 0 & -1 & -1 & 1 \\ -1 & 0 & 3 & -1 & 0 & -1 & -2 & 2 \\ -2 & 0 & 4 & -1 & 0 & -2 & -2 & 2 \\ -2 & 0 & 3 & -1 & 1 & -2 & -2 & 2 \\ -1 & 0 & 2 & -1 & 1 & -2 & -1 & 2 \\ -1 & 0 & 1 & 0 & 0 & -1 & -1 & 2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & -1 & 1 \\ -1 & 1 & 2 & -2 & 1 & -1 & -1 & 2 \\ -1 & 0 & 3 & -2 & 1 & -1 & -2 & 3 \\ -2 & 0 & 4 & -3 & 2 & -2 & -2 & 4 \\ -1 & 0 & 3 & -3 & 2 & -1 & -2 & 3 \\ 0 & 0 & 2 & -2 & 1 & -1 & -1 & 2 \\ 0 & 0 & 1 & -1 & 0 & 0 & -1 & 2 \\ 0 & 0 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & 1 & -1 \\ 1 & 1 & 1 & -1 & 0 & -1 & 2 & -2 \\ 1 & 2 & 1 & -2 & 1 & -1 & 2 & -3 \\ 2 & 2 & 1 & -2 & 1 & -2 & 4 & -5 \\ 1 & 1 & 1 & -1 & 1 & -2 & 3 & -4 \\ 0 & 1 & 1 & -1 & 1 & -2 & 3 & -3 \\ 0 & 1 & 0 & 0 & 0 & -1 & 2 & -2 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & 1 & -1 \\ 0 & 1 & 1 & -1 & 1 & -2 & 2 & -1 \\ 0 & 2 & 1 & -2 & 2 & -2 & 2 & -2 \\ 0 & 2 & 1 & -2 & 3 & -4 & 4 & -3 \\ 0 & 1 & 1 & -2 & 3 & -3 & 3 & -2 \\ 0 & 1 & 1 & -2 & 2 & -2 & 3 & -2 \\ 0 & 1 & 0 & -1 & 1 & -1 & 2 & -1 \\ 0 & 1 & 0 & -1 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & 1 & -1 \\ 1 & 1 & 1 & -2 & 1 & -1 & 2 & -1 \\ 1 & 2 & 1 & -3 & 2 & -1 & 2 & -2 \\ 2 & 2 & 1 & -4 & 3 & -2 & 4 & -3 \\ 2 & 1 & 1 & -3 & 2 & -1 & 3 & -3 \\ 1 & 1 & 1 & -2 & 1 & -1 & 3 & -3 \\ 1 & 1 & 0 & -1 & 0 & 0 & 2 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & -1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & -2 & 0 & 0 & 2 \\ 0 & 1 & 2 & -1 & -3 & 1 & -1 & 3 \\ 0 & 1 & 1 & 0 & -3 & 1 & -1 & 2 \\ 0 & 1 & 1 & 0 & -2 & 0 & -1 & 2 \\ 0 & 0 & 1 & 0 & -1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \\ -1 & 1 & 1 & 0 & -1 & -1 & 0 & 1 \\ -1 & 0 & 1 & 1 & -2 & -1 & 0 & 2 \\ -2 & 1 & 2 & 1 & -3 & -1 & -1 & 3 \\ -2 & 1 & 1 & 1 & -2 & -1 & -1 & 3 \\ -1 & 1 & 1 & 0 & -1 & -1 & -1 & 3 \\ -1 & 0 & 1 & 0 & 0 & -1 & -1 & 2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \\ -1 & 1 & 1 & -1 & 0 & -1 & 0 & 2 \\ -1 & 0 & 1 & 0 & -1 & -1 & 0 & 3 \\ -2 & 1 & 2 & -1 & -1 & -1 & -1 & 5 \\ -1 & 1 & 1 & -1 & -1 & 0 & -1 & 4 \\ 0 & 1 & 1 & -1 & -1 & 0 & -1 & 3 \\ 0 & 0 & 1 & -1 & 0 & 0 & -1 & 2 \\ 0 & 0 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 2 & -1 \\ 1 & 1 & 0 & 0 & -1 & -1 & 3 & -2 \\ 1 & 2 & -1 & 0 & -1 & -1 & 4 & -3 \\ 2 & 3 & -1 & 0 & -2 & -1 & 5 & -4 \\ 1 & 2 & -1 & 1 & -2 & -1 & 4 & -3 \\ 0 & 2 & 0 & 0 & -1 & -1 & 3 & -2 \\ 0 & 1 & 0 & 0 & 0 & -1 & 2 & -2 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 2 & -1 \\ 0 & 1 & 0 & 0 & 0 & -2 & 3 & -1 \\ 0 & 2 & -1 & 0 & 0 & -2 & 4 & -2 \\ 0 & 3 & -1 & 0 & 0 & -3 & 5 & -2 \\ 0 & 2 & -1 & 0 & 0 & -2 & 4 & -1 \\ 0 & 2 & 0 & -1 & 0 & -1 & 3 & -1 \\ 0 & 1 & 0 & -1 & 1 & -1 & 2 & -1 \\ 0 & 1 & 0 & -1 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 2 & -1 \\ 1 & 1 & 0 & -1 & 0 & -1 & 3 & -1 \\ 1 & 2 & -1 & -1 & 0 & -1 & 4 & -2 \\ 2 & 3 & -1 & -2 & 0 & -1 & 5 & -2 \\ 2 & 2 & -1 & -1 & -1 & 0 & 4 & -2 \\ 1 & 2 & 0 & -1 & -1 & 0 & 3 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 2 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & 1 & 0 \\ 0 & 1 & -1 & 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 2 & -2 & 0 & 2 & 0 \\ 0 & 0 & -2 & 3 & -2 & 0 & 2 & 0 \\ 0 & 0 & -2 & 2 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & 1 & 0 \\ 1 & 1 & -1 & 0 & -1 & 1 & 1 & 0 \\ 1 & 0 & -1 & 1 & -2 & 1 & 2 & 0 \\ 2 & 0 & -2 & 1 & -2 & 2 & 2 & 0 \\ 2 & 0 & -2 & 1 & -2 & 2 & 2 & -1 \\ 1 & 0 & -1 & 1 & -2 & 2 & 1 & -1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & 1 & 0 \\ 1 & 1 & -1 & 1 & -2 & 1 & 1 & -1 \\ 1 & 0 & -1 & 2 & -3 & 1 & 2 & -1 \\ 2 & 0 & -2 & 3 & -4 & 2 & 2 & -2 \\ 1 & 0 & -2 & 3 & -3 & 1 & 2 & -2 \\ 0 & 0 & -1 & 2 & -2 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \\ -1 & 1 & 0 & 0 & -1 & 1 & -2 & 3 \\ -1 & 2 & -1 & 0 & -1 & 1 & -2 & 3 \\ -2 & 2 & -1 & 0 & -1 & 2 & -4 & 5 \\ -1 & 1 & -1 & 0 & -1 & 2 & -3 & 4 \\ 0 & 1 & -1 & 0 & -1 & 2 & -3 & 3 \\ 0 & 1 & 0 & -1 & 0 & 1 & -2 & 2 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \\ 0 & 1 & 0 & 0 & -2 & 2 & -2 & 2 \\ 0 & 2 & -1 & 0 & -2 & 2 & -2 & 2 \\ 0 & 2 & -1 & 0 & -3 & 4 & -4 & 3 \\ 0 & 1 & -1 & 1 & -3 & 3 & -3 & 2 \\ 0 & 1 & -1 & 1 & -2 & 2 & -3 & 2 \\ 0 & 1 & 0 & 0 & -1 & 1 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \\ -1 & 1 & 0 & 1 & -2 & 1 & -2 & 2 \\ -1 & 2 & -1 & 1 & -2 & 1 & -2 & 2 \\ -2 & 2 & -1 & 2 & -3 & 2 & -4 & 3 \\ -2 & 1 & -1 & 2 & -2 & 1 & -3 & 3 \\ -1 & 1 & -1 & 1 & -1 & 1 & -3 & 3 \\ -1 & 1 & 0 & 0 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 2 & -1 \\ 0 & -1 & -1 & 1 & 1 & -2 & 3 & -2 \\ 0 & -2 & -1 & 2 & 0 & -2 & 4 & -2 \\ 0 & -2 & -1 & 2 & 1 & -4 & 6 & -3 \\ 0 & -1 & -1 & 1 & 1 & -3 & 5 & -2 \\ 0 & -1 & 0 & 0 & 1 & -2 & 4 & -2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 2 & -1 \\ 1 & -1 & -1 & 0 & 1 & -1 & 3 & -2 \\ 1 & -2 & -1 & 1 & 0 & -1 & 4 & -2 \\ 2 & -2 & -1 & 0 & 1 & -2 & 6 & -3 \\ 2 & -1 & -1 & 0 & 0 & -1 & 5 & -3 \\ 1 & -1 & 0 & 0 & 0 & -1 & 4 & -3 \\ 1 & -1 & 0 & 0 & 0 & 0 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 2 & -1 \\ 1 & -1 & -1 & 1 & 0 & -1 & 3 & -3 \\ 1 & -2 & -1 & 2 & -1 & -1 & 4 & -3 \\ 2 & -2 & -1 & 2 & -1 & -2 & 6 & -5 \\ 1 & -1 & -1 & 2 & -1 & -2 & 5 & -4 \\ 0 & -1 & 0 & 1 & 0 & -2 & 4 & -3 \\ 0 & -1 & 0 & 1 & 0 & -1 & 2 & -2 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ -1 & 0 & -1 & 0 & 1 & -1 & 0 & 1 \\ -2 & 0 & 0 & -1 & 2 & -2 & 0 & 2 \\ -1 & 0 & 0 & -1 & 1 & -1 & 0 & 2 \\ 0 & 0 & 0 & -1 & 1 & -1 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 1 & 0 & -1 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \\ -2 & 0 & 0 & 1 & 0 & -2 & 0 & 0 \\ -2 & 0 & 0 & 1 & 0 & -2 & 0 & 1 \\ -1 & 0 & 0 & 0 & 1 & -2 & 0 & 1 \\ -1 & 0 & 0 & 0 & 1 & -1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 2 & 0 & -1 & 0 & 0 & 1 & -1 \\ -1 & 2 & 1 & -1 & 0 & -1 & 2 & -1 \\ 0 & 3 & 0 & -1 & 0 & -1 & 2 & -1 \\ -1 & 4 & 1 & -2 & 1 & -2 & 3 & -2 \\ -1 & 3 & 1 & -2 & 1 & -1 & 2 & -1 \\ 0 & 2 & 1 & -2 & 1 & -1 & 2 & -1 \\ 0 & 1 & 0 & -1 & 1 & -1 & 2 & -1 \\ 0 & 1 & 0 & -1 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & 0 & 0 & 1 & -1 \\ 0 & 2 & 1 & -2 & 0 & 0 & 2 & -1 \\ 1 & 3 & 0 & -2 & 0 & 0 & 2 & -1 \\ 1 & 4 & 1 & -4 & 1 & 0 & 3 & -2 \\ 1 & 3 & 1 & -3 & 0 & 1 & 2 & -2 \\ 1 & 2 & 1 & -2 & 0 & 0 & 2 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 2 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & 0 & 0 & 1 & -1 \\ 0 & 2 & 1 & -1 & -1 & 0 & 2 & -2 \\ 1 & 3 & 0 & -1 & -1 & 0 & 2 & -2 \\ 1 & 4 & 1 & -2 & -1 & 0 & 3 & -4 \\ 0 & 3 & 1 & -1 & -1 & 0 & 2 & -3 \\ 0 & 2 & 1 & -1 & 0 & -1 & 2 & -2 \\ 0 & 1 & 0 & 0 & 0 & -1 & 2 & -2 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & -1 & 2 \\ 0 & 1 & 1 & -1 & 0 & -1 & -1 & 3 \\ -1 & 1 & 2 & -1 & -1 & 0 & -2 & 4 \\ -1 & 1 & 3 & -2 & 0 & -1 & -3 & 6 \\ 0 & 1 & 2 & -2 & 0 & 0 & -3 & 5 \\ 0 & 1 & 2 & -2 & 0 & 0 & -2 & 3 \\ 0 & 0 & 1 & -1 & 0 & 0 & -1 & 2 \\ 0 & 0 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & -1 & 2 \\ 1 & 1 & 1 & -1 & -1 & 0 & -1 & 2 \\ 0 & 1 & 2 & -1 & -2 & 1 & -2 & 3 \\ 1 & 1 & 3 & -2 & -2 & 1 & -3 & 4 \\ 1 & 1 & 2 & -1 & -2 & 1 & -3 & 3 \\ 0 & 1 & 2 & -1 & -1 & 0 & -2 & 2 \\ 0 & 0 & 1 & 0 & -1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & -1 & 2 \\ 0 & 1 & 1 & 0 & -1 & -1 & -1 & 2 \\ -1 & 1 & 2 & 0 & -2 & 0 & -2 & 3 \\ -1 & 1 & 3 & 0 & -2 & -1 & -3 & 4 \\ -1 & 1 & 2 & 0 & -1 & -1 & -3 & 4 \\ -1 & 1 & 2 & -1 & 0 & -1 & -2 & 3 \\ -1 & 0 & 1 & 0 & 0 & -1 & -1 & 2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 2 & -1 \\ 0 & 1 & 1 & -1 & -1 & 0 & 3 & -2 \\ 0 & 0 & 1 & 0 & -2 & 0 & 4 & -2 \\ 0 & 0 & 2 & -1 & -2 & 0 & 6 & -4 \\ 0 & 0 & 1 & 0 & -2 & 0 & 5 & -4 \\ 0 & 0 & 1 & 0 & -1 & -1 & 4 & -3 \\ 0 & 0 & 1 & 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & 1 & 0 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 2 & -1 \\ -1 & 1 & 1 & 0 & -1 & -1 & 3 & -2 \\ -1 & 0 & 1 & 1 & -2 & -1 & 4 & -2 \\ -2 & 0 & 2 & 1 & -2 & -2 & 6 & -4 \\ -2 & 0 & 1 & 1 & -1 & -2 & 5 & -3 \\ -1 & 0 & 1 & 0 & 0 & -2 & 4 & -2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 2 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 2 & -1 \\ -1 & 1 & 1 & -1 & 0 & -1 & 3 & -1 \\ -1 & 0 & 1 & 0 & -1 & -1 & 4 & -1 \\ -2 & 0 & 2 & -1 & 0 & -2 & 6 & -2 \\ -1 & 0 & 1 & -1 & 0 & -1 & 5 & -2 \\ 0 & 0 & 1 & -1 & 0 & -1 & 4 & -2 \\ 0 & 0 & 1 & -1 & 0 & 0 & 2 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 0 & 1 \\ 1 & 1 & 0 & 0 & -1 & -1 & 0 & 1 \\ 1 & 2 & -1 & 0 & -1 & -1 & 0 & 1 \\ 2 & 2 & -1 & 0 & -1 & -2 & 0 & 1 \\ 1 & 1 & -1 & 1 & -1 & -2 & 0 & 1 \\ 0 & 1 & 0 & 0 & 0 & -2 & 0 & 1 \\ 0 & 1 & 0 & 0 & 0 & -1 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & 0 & 0 & 0 & -2 & 0 & 2 \\ 0 & 2 & -1 & 0 & 0 & -2 & 0 & 2 \\ 0 & 2 & -1 & 0 & 1 & -4 & 0 & 3 \\ 0 & 1 & -1 & 0 & 1 & -3 & 0 & 3 \\ 0 & 1 & 0 & -1 & 1 & -2 & 0 & 2 \\ 0 & 1 & 0 & -1 & 1 & -1 & -1 & 2 \\ 0 & 1 & 0 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 0 & 1 \\ 1 & 1 & 0 & -1 & 0 & -1 & 0 & 2 \\ 1 & 2 & -1 & -1 & 0 & -1 & 0 & 2 \\ 2 & 2 & -1 & -2 & 1 & -2 & 0 & 3 \\ 2 & 1 & -1 & -1 & 0 & -1 & 0 & 2 \\ 1 & 1 & 0 & -1 & 0 & -1 & 0 & 1 \\ 1 & 1 & 0 & -1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & 1 & -1 \\ 0 & 1 & 2 & -2 & 0 & 0 & 2 & -2 \\ 0 & 0 & 3 & -2 & 0 & 0 & 2 & -2 \\ 0 & 1 & 4 & -3 & -1 & 1 & 3 & -3 \\ 0 & 1 & 3 & -2 & -1 & 1 & 2 & -3 \\ 0 & 1 & 2 & -1 & -1 & 0 & 2 & -2 \\ 0 & 0 & 1 & 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & 1 & 0 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 2 & -1 & 0 & -1 & 2 & -2 \\ -1 & 0 & 3 & -1 & 0 & -1 & 2 & -2 \\ -2 & 1 & 4 & -1 & -1 & -1 & 3 & -3 \\ -2 & 1 & 3 & -1 & 0 & -1 & 2 & -2 \\ -1 & 1 & 2 & -1 & 0 & -1 & 2 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 2 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 2 & -2 & 1 & -1 & 2 & -1 \\ -1 & 0 & 3 & -2 & 1 & -1 & 2 & -1 \\ -2 & 1 & 4 & -3 & 1 & -1 & 3 & -1 \\ -1 & 1 & 3 & -3 & 1 & 0 & 2 & -1 \\ 0 & 1 & 2 & -2 & 0 & 0 & 2 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 2 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & -1 & 1 \\ 1 & 1 & 1 & -1 & 0 & -1 & -1 & 1 \\ 1 & 2 & 1 & -2 & 1 & -1 & -2 & 1 \\ 2 & 3 & 1 & -2 & 0 & -1 & -3 & 2 \\ 1 & 2 & 1 & -1 & 0 & -1 & -3 & 2 \\ 0 & 2 & 1 & -1 & 0 & -1 & -2 & 2 \\ 0 & 1 & 0 & 0 & 0 & -1 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & -1 & 1 \\ 0 & 1 & 1 & -1 & 1 & -2 & -1 & 2 \\ 0 & 2 & 1 & -2 & 2 & -2 & -2 & 2 \\ 0 & 3 & 1 & -2 & 2 & -3 & -3 & 4 \\ 0 & 2 & 1 & -2 & 2 & -2 & -3 & 4 \\ 0 & 2 & 1 & -2 & 1 & -1 & -2 & 3 \\ 0 & 1 & 0 & -1 & 1 & -1 & -1 & 2 \\ 0 & 1 & 0 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & -1 & 1 \\ 1 & 1 & 1 & -2 & 1 & -1 & -1 & 2 \\ 1 & 2 & 1 & -3 & 2 & -1 & -2 & 2 \\ 2 & 3 & 1 & -4 & 2 & -1 & -3 & 4 \\ 2 & 2 & 1 & -3 & 1 & 0 & -3 & 3 \\ 1 & 2 & 1 & -2 & 0 & 0 & -2 & 2 \\ 1 & 1 & 0 & -1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & -1 & 2 \\ 0 & 1 & -1 & 1 & -1 & 0 & -2 & 3 \\ 0 & 0 & -1 & 2 & -2 & 0 & -2 & 4 \\ 0 & 0 & -2 & 3 & -2 & 0 & -4 & 6 \\ 0 & 0 & -2 & 2 & -1 & 0 & -3 & 5 \\ 0 & 0 & -1 & 1 & -1 & 1 & -3 & 4 \\ 0 & 0 & 0 & 0 & 0 & 0 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & -1 & 2 \\ 1 & 1 & -1 & 0 & -1 & 1 & -2 & 3 \\ 1 & 0 & -1 & 1 & -2 & 1 & -2 & 4 \\ 2 & 0 & -2 & 1 & -2 & 2 & -4 & 6 \\ 2 & 0 & -2 & 1 & -2 & 2 & -3 & 4 \\ 1 & 0 & -1 & 1 & -2 & 2 & -3 & 3 \\ 1 & 0 & 0 & 0 & -1 & 1 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & -1 & 2 \\ 1 & 1 & -1 & 1 & -2 & 1 & -2 & 2 \\ 1 & 0 & -1 & 2 & -3 & 1 & -2 & 3 \\ 2 & 0 & -2 & 3 & -4 & 2 & -4 & 4 \\ 1 & 0 & -2 & 3 & -3 & 1 & -3 & 3 \\ 0 & 0 & -1 & 2 & -2 & 1 & -3 & 3 \\ 0 & 0 & 0 & 1 & -1 & 0 & -2 & 2 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 & 1 & 1 & 0 \\ -1 & 2 & -1 & 0 & -1 & 1 & 2 & -1 \\ -2 & 2 & -1 & 0 & -1 & 2 & 2 & -1 \\ -1 & 1 & -1 & 0 & -1 & 2 & 2 & -1 \\ 0 & 1 & -1 & 0 & -1 & 2 & 1 & -1 \\ 0 & 1 & 0 & -1 & 0 & 1 & 1 & -1 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & 1 & -1 \\ 0 & 1 & 0 & 0 & -2 & 2 & 1 & -1 \\ 0 & 2 & -1 & 0 & -2 & 2 & 2 & -2 \\ 0 & 2 & -1 & 0 & -3 & 4 & 2 & -3 \\ 0 & 1 & -1 & 1 & -3 & 3 & 2 & -3 \\ 0 & 1 & -1 & 1 & -2 & 2 & 1 & -2 \\ 0 & 1 & 0 & 0 & -1 & 1 & 1 & -2 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & 1 & -1 \\ -1 & 1 & 0 & 1 & -2 & 1 & 1 & -1 \\ -1 & 2 & -1 & 1 & -2 & 1 & 2 & -2 \\ -2 & 2 & -1 & 2 & -3 & 2 & 2 & -3 \\ -2 & 1 & -1 & 2 & -2 & 1 & 2 & -2 \\ -1 & 1 & -1 & 1 & -1 & 1 & 1 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 1 & -2 & 0 & 1 \\ 0 & -2 & -1 & 2 & 0 & -2 & 0 & 2 \\ 0 & -2 & -1 & 2 & 1 & -4 & 0 & 3 \\ 0 & -1 & -1 & 1 & 1 & -3 & 0 & 3 \\ 0 & -1 & 0 & 0 & 1 & -2 & 0 & 2 \\ 0 & -1 & 0 & 0 & 1 & -1 & -1 & 2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 1 & -1 & -1 & 0 & 1 & -1 & 0 & 1 \\ 1 & -2 & -1 & 1 & 0 & -1 & 0 & 2 \\ 2 & -2 & -1 & 0 & 1 & -2 & 0 & 3 \\ 2 & -1 & -1 & 0 & 0 & -1 & 0 & 2 \\ 1 & -1 & 0 & 0 & 0 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 1 & -1 & -1 & 1 & 0 & -1 & 0 & 0 \\ 1 & -2 & -1 & 2 & -1 & -1 & 0 & 1 \\ 2 & -2 & -1 & 2 & -1 & -2 & 0 & 1 \\ 1 & -1 & -1 & 2 & -1 & -2 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 & -2 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 & -1 & -1 & 1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 2 & -2 \\ -1 & -1 & 0 & 0 & 1 & -1 & 3 & -2 \\ -1 & 0 & -1 & 0 & 1 & -1 & 4 & -3 \\ -2 & 0 & 0 & -1 & 2 & -2 & 6 & -4 \\ -1 & 0 & 0 & -1 & 1 & -1 & 5 & -3 \\ 0 & 0 & 0 & -1 & 1 & -1 & 4 & -3 \\ 0 & 0 & 0 & -1 & 1 & 0 & 2 & -2 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 2 & -2 \\ 0 & -1 & 0 & 0 & 0 & 0 & 3 & -3 \\ 0 & 0 & -1 & 0 & 0 & 0 & 4 & -4 \\ 0 & 0 & 0 & -1 & 0 & 0 & 6 & -6 \\ 0 & 0 & 0 & 0 & -1 & 0 & 5 & -5 \\ 0 & 0 & 0 & 0 & 0 & -1 & 4 & -4 \\ 0 & 0 & 0 & 0 & 0 & 0 & 2 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 2 & -2 \\ -1 & -1 & 0 & 1 & 0 & -1 & 3 & -3 \\ -1 & 0 & -1 & 1 & 0 & -1 & 4 & -4 \\ -2 & 0 & 0 & 1 & 0 & -2 & 6 & -6 \\ -2 & 0 & 0 & 1 & 0 & -2 & 5 & -4 \\ -1 & 0 & 0 & 0 & 1 & -2 & 4 & -3 \\ -1 & 0 & 0 & 0 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 2 & 0 & -1 & 0 & 0 & -1 & 1 \\ -1 & 2 & 1 & -1 & 0 & -1 & -1 & 2 \\ 0 & 3 & 0 & -1 & 0 & -1 & -2 & 3 \\ -1 & 4 & 1 & -2 & 1 & -2 & -3 & 4 \\ -1 & 3 & 1 & -2 & 1 & -1 & -3 & 4 \\ 0 & 2 & 1 & -2 & 1 & -1 & -2 & 3 \\ 0 & 1 & 0 & -1 & 1 & -1 & -1 & 2 \\ 0 & 1 & 0 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & 0 & 0 & -1 & 1 \\ 0 & 2 & 1 & -2 & 0 & 0 & -1 & 2 \\ 1 & 3 & 0 & -2 & 0 & 0 & -2 & 3 \\ 1 & 4 & 1 & -4 & 1 & 0 & -3 & 4 \\ 1 & 3 & 1 & -3 & 0 & 1 & -3 & 3 \\ 1 & 2 & 1 & -2 & 0 & 0 & -2 & 2 \\ 1 & 1 & 0 & -1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & 0 & 0 & -1 & 1 \\ 0 & 2 & 1 & -1 & -1 & 0 & -1 & 1 \\ 1 & 3 & 0 & -1 & -1 & 0 & -2 & 2 \\ 1 & 4 & 1 & -2 & -1 & 0 & -3 & 2 \\ 0 & 3 & 1 & -1 & -1 & 0 & -3 & 2 \\ 0 & 2 & 1 & -1 & 0 & -1 & -2 & 2 \\ 0 & 1 & 0 & 0 & 0 & -1 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -1 & 0 & -1 & 2 & 0 \\ -1 & 1 & 2 & -1 & -1 & 0 & 2 & 0 \\ -1 & 1 & 3 & -2 & 0 & -1 & 3 & 0 \\ 0 & 1 & 2 & -2 & 0 & 0 & 2 & 0 \\ 0 & 1 & 2 & -2 & 0 & 0 & 2 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 2 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 1 & -1 & -1 & 0 & 2 & -1 \\ 0 & 1 & 2 & -1 & -2 & 1 & 2 & -1 \\ 1 & 1 & 3 & -2 & -2 & 1 & 3 & -2 \\ 1 & 1 & 2 & -1 & -2 & 1 & 2 & -2 \\ 0 & 1 & 2 & -1 & -1 & 0 & 2 & -2 \\ 0 & 0 & 1 & 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & 1 & 0 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 & -1 & -1 & 2 & -1 \\ -1 & 1 & 2 & 0 & -2 & 0 & 2 & -1 \\ -1 & 1 & 3 & 0 & -2 & -1 & 3 & -2 \\ -1 & 1 & 2 & 0 & -1 & -1 & 2 & -1 \\ -1 & 1 & 2 & -1 & 0 & -1 & 2 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 2 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & -1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & -2 & 0 & 0 & 2 \\ 0 & 0 & 2 & -1 & -2 & 0 & 0 & 2 \\ 0 & 0 & 1 & 0 & -2 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & -1 & -1 & 0 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \\ -1 & 1 & 1 & 0 & -1 & -1 & 0 & 1 \\ -1 & 0 & 1 & 1 & -2 & -1 & 0 & 2 \\ -2 & 0 & 2 & 1 & -2 & -2 & 0 & 2 \\ -2 & 0 & 1 & 1 & -1 & -2 & 0 & 2 \\ -1 & 0 & 1 & 0 & 0 & -2 & 0 & 2 \\ -1 & 0 & 1 & 0 & 0 & -1 & -1 & 2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \\ -1 & 1 & 1 & -1 & 0 & -1 & 0 & 2 \\ -1 & 0 & 1 & 0 & -1 & -1 & 0 & 3 \\ -2 & 0 & 2 & -1 & 0 & -2 & 0 & 4 \\ -1 & 0 & 1 & -1 & 0 & -1 & 0 & 3 \\ 0 & 0 & 1 & -1 & 0 & -1 & 0 & 2 \\ 0 & 0 & 1 & -1 & 0 & 0 & -1 & 2 \\ 0 & 0 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 2 & -1 \\ 1 & 1 & 0 & 0 & -1 & -1 & 3 & -2 \\ 1 & 2 & -1 & 0 & -1 & -1 & 4 & -3 \\ 2 & 2 & -1 & 0 & -1 & -2 & 6 & -5 \\ 1 & 1 & -1 & 1 & -1 & -2 & 5 & -4 \\ 0 & 1 & 0 & 0 & 0 & -2 & 4 & -3 \\ 0 & 1 & 0 & 0 & 0 & -1 & 2 & -2 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 2 & -1 \\ 0 & 1 & 0 & 0 & 0 & -2 & 3 & -1 \\ 0 & 2 & -1 & 0 & 0 & -2 & 4 & -2 \\ 0 & 2 & -1 & 0 & 1 & -4 & 6 & -3 \\ 0 & 1 & -1 & 0 & 1 & -3 & 5 & -2 \\ 0 & 1 & 0 & -1 & 1 & -2 & 4 & -2 \\ 0 & 1 & 0 & -1 & 1 & -1 & 2 & -1 \\ 0 & 1 & 0 & -1 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 2 & -1 \\ 1 & 1 & 0 & -1 & 0 & -1 & 3 & -1 \\ 1 & 2 & -1 & -1 & 0 & -1 & 4 & -2 \\ 2 & 2 & -1 & -2 & 1 & -2 & 6 & -3 \\ 2 & 1 & -1 & -1 & 0 & -1 & 5 & -3 \\ 1 & 1 & 0 & -1 & 0 & -1 & 4 & -3 \\ 1 & 1 & 0 & -1 & 0 & 0 & 2 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & -1 & 1 \\ 0 & 1 & 2 & -2 & 0 & 0 & -1 & 1 \\ 0 & 0 & 3 & -2 & 0 & 0 & -2 & 2 \\ 0 & 1 & 4 & -3 & -1 & 1 & -3 & 3 \\ 0 & 1 & 3 & -2 & -1 & 1 & -3 & 2 \\ 0 & 1 & 2 & -1 & -1 & 0 & -2 & 2 \\ 0 & 0 & 1 & 0 & -1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & -1 & 1 \\ -1 & 1 & 2 & -1 & 0 & -1 & -1 & 1 \\ -1 & 0 & 3 & -1 & 0 & -1 & -2 & 2 \\ -2 & 1 & 4 & -1 & -1 & -1 & -3 & 3 \\ -2 & 1 & 3 & -1 & 0 & -1 & -3 & 3 \\ -1 & 1 & 2 & -1 & 0 & -1 & -2 & 3 \\ -1 & 0 & 1 & 0 & 0 & -1 & -1 & 2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & -1 & 1 \\ -1 & 1 & 2 & -2 & 1 & -1 & -1 & 2 \\ -1 & 0 & 3 & -2 & 1 & -1 & -2 & 3 \\ -2 & 1 & 4 & -3 & 1 & -1 & -3 & 5 \\ -1 & 1 & 3 & -3 & 1 & 0 & -3 & 4 \\ 0 & 1 & 2 & -2 & 0 & 0 & -2 & 3 \\ 0 & 0 & 1 & -1 & 0 & 0 & -1 & 2 \\ 0 & 0 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & 1 & -1 \\ 1 & 1 & 1 & -1 & 0 & -1 & 2 & -2 \\ 1 & 2 & 1 & -2 & 1 & -1 & 2 & -3 \\ 2 & 3 & 1 & -2 & 0 & -1 & 3 & -4 \\ 1 & 2 & 1 & -1 & 0 & -1 & 2 & -3 \\ 0 & 2 & 1 & -1 & 0 & -1 & 2 & -2 \\ 0 & 1 & 0 & 0 & 0 & -1 & 2 & -2 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & 1 & -1 \\ 0 & 1 & 1 & -1 & 1 & -2 & 2 & -1 \\ 0 & 2 & 1 & -2 & 2 & -2 & 2 & -2 \\ 0 & 3 & 1 & -2 & 2 & -3 & 3 & -2 \\ 0 & 2 & 1 & -2 & 2 & -2 & 2 & -1 \\ 0 & 2 & 1 & -2 & 1 & -1 & 2 & -1 \\ 0 & 1 & 0 & -1 & 1 & -1 & 2 & -1 \\ 0 & 1 & 0 & -1 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & 1 & -1 \\ 1 & 1 & 1 & -2 & 1 & -1 & 2 & -1 \\ 1 & 2 & 1 & -3 & 2 & -1 & 2 & -2 \\ 2 & 3 & 1 & -4 & 2 & -1 & 3 & -2 \\ 2 & 2 & 1 & -3 & 1 & 0 & 2 & -2 \\ 1 & 2 & 1 & -2 & 0 & 0 & 2 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 2 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 1 & -1 \end{pmatrix}.$$

The character table of $G^{s_{100}}$:

									10											20						
$\chi_{100}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(2)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1
$\chi_{100}^{(3)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1
$\chi_{100}^{(4)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1
$\chi_{100}^{(5)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1
$\chi_{100}^{(6)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{100}^{(7)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{100}^{(8)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{100}^{(9)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{100}^{(10)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(12)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(13)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(14)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(15)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(16)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(17)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1
$\chi_{100}^{(18)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1
$\chi_{100}^{(19)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1
$\chi_{100}^{(20)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1
$\chi_{100}^{(21)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1
$\chi_{100}^{(22)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1
$\chi_{100}^{(23)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1
$\chi_{100}^{(24)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1
$\chi_{100}^{(25)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1
$\chi_{100}^{(26)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1
$\chi_{100}^{(27)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1
$\chi_{100}^{(28)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1
$\chi_{100}^{(29)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1
$\chi_{100}^{(30)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1
$\chi_{100}^{(31)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1
$\chi_{100}^{(32)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1
$\chi_{100}^{(33)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(34)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(35)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(36)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(37)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(38)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(39)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(40)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(41)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1
$\chi_{100}^{(42)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(43)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1
$\chi_{100}^{(44)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(45)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1

								10												20					
$\chi_{100}^{(46)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(47)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1
$\chi_{100}^{(48)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(49)}$	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.
$\chi_{100}^{(50)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	.	.	.	.	.	.	.
$\chi_{100}^{(51)}$	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.
$\chi_{100}^{(52)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	.	.	.	.	.	.	.
$\chi_{100}^{(53)}$	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.
$\chi_{100}^{(54)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	.	.	.	.	.	.	.
$\chi_{100}^{(55)}$	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.
$\chi_{100}^{(56)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	.	.	.	.	.	.	.
$\chi_{100}^{(57)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.
$\chi_{100}^{(58)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.
$\chi_{100}^{(59)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.
$\chi_{100}^{(60)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.
$\chi_{100}^{(61)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.
$\chi_{100}^{(62)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.
$\chi_{100}^{(63)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.
$\chi_{100}^{(64)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.
$\chi_{100}^{(65)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.
$\chi_{100}^{(66)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.
$\chi_{100}^{(67)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.
$\chi_{100}^{(68)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.
$\chi_{100}^{(69)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.
$\chi_{100}^{(70)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.
$\chi_{100}^{(71)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.
$\chi_{100}^{(72)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.
$\chi_{100}^{(73)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	1	1	1	1	1	1	-1
$\chi_{100}^{(74)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1
$\chi_{100}^{(75)}$	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1
$\chi_{100}^{(76)}$	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	-1	-1	-1	1	1	1	1
$\chi_{100}^{(77)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1
$\chi_{100}^{(78)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	1	1	1	1	1	1	-1
$\chi_{100}^{(79)}$	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	-1	-1	-1	1	1	1	1
$\chi_{100}^{(80)}$	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1
$\chi_{100}^{(81)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1
$\chi_{100}^{(82)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	1	1	1	1	1	1	-1
$\chi_{100}^{(83)}$	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	-1	-1	-1	1	1	1	1
$\chi_{100}^{(84)}$	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1
$\chi_{100}^{(85)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	1	1	1	1	1	1	-1
$\chi_{100}^{(86)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1
$\chi_{100}^{(87)}$	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1
$\chi_{100}^{(88)}$	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	-1	-1	-1	1	1	1	1
$\chi_{100}^{(89)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	1	A	/A	/A	1	A	-1
$\chi_{100}^{(90)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	1	/A	A	A	1	/A	-1

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$\chi_{100}^{(91)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1
$\chi_{100}^{(92)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1
$\chi_{100}^{(93)}$	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1
$\chi_{100}^{(94)}$	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1
$\chi_{100}^{(95)}$	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1
$\chi_{100}^{(96)}$	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1
$\chi_{100}^{(97)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1
$\chi_{100}^{(98)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1
$\chi_{100}^{(99)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	1	A	/A	/A	1	A	-1
$\chi_{100}^{(100)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	1	/A	A	A	1	/A	-1
$\chi_{100}^{(101)}$	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1
$\chi_{100}^{(102)}$	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1
$\chi_{100}^{(103)}$	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1
$\chi_{100}^{(104)}$	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1
$\chi_{100}^{(105)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1
$\chi_{100}^{(106)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1
$\chi_{100}^{(107)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	1	A	/A	/A	1	A	-1
$\chi_{100}^{(108)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	1	/A	A	A	1	/A	-1
$\chi_{100}^{(109)}$	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1
$\chi_{100}^{(110)}$	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1
$\chi_{100}^{(111)}$	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1
$\chi_{100}^{(112)}$	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1
$\chi_{100}^{(113)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	1	A	/A	/A	1	A	-1
$\chi_{100}^{(114)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	1	/A	A	A	1	/A	-1
$\chi_{100}^{(115)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1
$\chi_{100}^{(116)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1
$\chi_{100}^{(117)}$	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1
$\chi_{100}^{(118)}$	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1
$\chi_{100}^{(119)}$	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1
$\chi_{100}^{(120)}$	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1

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$\chi_{100}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(2)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1
$\chi_{100}^{(3)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1
$\chi_{100}^{(4)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1
$\chi_{100}^{(5)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1
$\chi_{100}^{(6)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{100}^{(7)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{100}^{(8)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{100}^{(9)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{100}^{(10)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{100}^{(11)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{100}^{(12)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{100}^{(13)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{100}^{(14)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(15)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

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$\chi_{100}^{(16)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(17)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1
$\chi_{100}^{(18)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1
$\chi_{100}^{(19)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1
$\chi_{100}^{(20)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1
$\chi_{100}^{(21)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1
$\chi_{100}^{(22)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1
$\chi_{100}^{(23)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1
$\chi_{100}^{(24)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1
$\chi_{100}^{(25)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1
$\chi_{100}^{(26)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1
$\chi_{100}^{(27)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1
$\chi_{100}^{(28)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1
$\chi_{100}^{(29)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1
$\chi_{100}^{(30)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1
$\chi_{100}^{(31)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1
$\chi_{100}^{(32)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1
$\chi_{100}^{(33)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1
$\chi_{100}^{(34)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1
$\chi_{100}^{(35)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1
$\chi_{100}^{(36)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1
$\chi_{100}^{(37)}$	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1
$\chi_{100}^{(38)}$	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1
$\chi_{100}^{(39)}$	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1
$\chi_{100}^{(40)}$	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1
$\chi_{100}^{(41)}$	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(42)}$	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(43)}$	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(44)}$	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(45)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1
$\chi_{100}^{(46)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(47)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1
$\chi_{100}^{(48)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(49)}$	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	1	1	.
$\chi_{100}^{(50)}$	.	.	.	.	.	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	1	1	1	-1	-1	-1	.
$\chi_{100}^{(51)}$	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	.
$\chi_{100}^{(52)}$	.	.	.	.	.	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	.
$\chi_{100}^{(53)}$	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	.
$\chi_{100}^{(54)}$	.	.	.	.	.	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	.
$\chi_{100}^{(55)}$	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	1	1	.
$\chi_{100}^{(56)}$	.	.	.	.	.	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	1	1	1	-1	-1	-1	.
$\chi_{100}^{(57)}$	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	1	A	/A	/A	1	A	.
$\chi_{100}^{(58)}$	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	1	/A	A	A	1	/A	.
$\chi_{100}^{(59)}$	.	.	.	.	.	-2	-B	-/B	/B	2	B	-2	-B	-/B	/B	2	B	1	A	/A	-/A	-1	-A	.
$\chi_{100}^{(60)}$	.	.	.	.	.	-2	-/B	-B	B	2	/B	-2	-/B	-B	B	2	/B	1	/A	A	-A	-1	-/A	.

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$\chi_{100}^{(61)}$	.	.	.	.	.	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1	-A	-/A	-/A	-1	-A	.
$\chi_{100}^{(62)}$	.	.	.	.	.	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1	-/A	-A	-A	-1	-/A	.
$\chi_{100}^{(63)}$	.	.	.	.	.	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1	A	.
$\chi_{100}^{(64)}$	.	.	.	.	.	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1	-/A	-A	A	1	/A	.
$\chi_{100}^{(65)}$	.	.	.	.	.	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1	-A	-/A	-/A	-1	-A	.
$\chi_{100}^{(66)}$	.	.	.	.	.	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1	-/A	-A	-A	-1	-/A	.
$\chi_{100}^{(67)}$	.	.	.	.	.	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1	A	.
$\chi_{100}^{(68)}$	.	.	.	.	.	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1	-/A	-A	A	1	/A	.
$\chi_{100}^{(69)}$	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	1	A	/A	/A	1	A	.
$\chi_{100}^{(70)}$	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	1	/A	A	A	1	/A	.
$\chi_{100}^{(71)}$	.	.	.	.	.	-2	-B	-/B	/B	2	B	-2	-B	-/B	/B	2	B	1	A	/A	-/A	-1	-A	.
$\chi_{100}^{(72)}$	.	.	.	.	.	-2	-/B	-B	B	2	/B	-2	-/B	-B	B	2	/B	1	/A	A	-A	-1	-/A	.
$\chi_{100}^{(73)}$	-1	-1	-1	-1	-1	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1	.	.	.	.	.	.	-1
$\chi_{100}^{(74)}$	1	1	1	1	1	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1	.	.	.	.	.	.	1
$\chi_{100}^{(75)}$	-1	-1	1	1	1	-3	-3	-3	3	3	3	1	1	1	-1	-1	-1	.	.	.	.	.	.	-1
$\chi_{100}^{(76)}$	1	1	-1	-1	-1	-3	-3	-3	3	3	3	1	1	1	-1	-1	-1	.	.	.	.	.	.	1
$\chi_{100}^{(77)}$	1	1	1	1	1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	-1
$\chi_{100}^{(78)}$	-1	-1	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	1
$\chi_{100}^{(79)}$	1	1	-1	-1	-1	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	-1
$\chi_{100}^{(80)}$	-1	-1	1	1	1	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	1
$\chi_{100}^{(81)}$	1	1	1	1	1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	-1
$\chi_{100}^{(82)}$	-1	-1	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	1
$\chi_{100}^{(83)}$	1	1	-1	-1	-1	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	-1
$\chi_{100}^{(84)}$	-1	-1	1	1	1	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.	.	.	.	1
$\chi_{100}^{(85)}$	-1	-1	-1	-1	-1	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1	.	.	.	.	.	.	-1
$\chi_{100}^{(86)}$	1	1	1	1	1	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1	.	.	.	.	.	.	1
$\chi_{100}^{(87)}$	-1	-1	1	1	1	-3	-3	-3	3	3	3	1	1	1	-1	-1	-1	.	.	.	.	.	.	-1
$\chi_{100}^{(88)}$	1	1	-1	-1	-1	-3	-3	-3	3	3	3	1	1	1	-1	-1	-1	.	.	.	.	.	.	1
$\chi_{100}^{(89)}$	-A	-/A	-/A	-1	-A	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	.	.	.	.	.	.	-1
$\chi_{100}^{(90)}$	-/A	-A	-A	-1	-/A	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	.	.	.	.	.	.	-1
$\chi_{100}^{(91)}$	A	/A	/A	1	A	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	.	.	.	.	.	.	1
$\chi_{100}^{(92)}$	/A	A	A	1	/A	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	.	.	.	.	.	.	1
$\chi_{100}^{(93)}$	-A	-/A	/A	1	A	-3	-C	-/C	/C	3	C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	-1
$\chi_{100}^{(94)}$	-/A	-A	A	1	/A	-3	-/C	-C	C	3	/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	-1
$\chi_{100}^{(95)}$	A	/A	-/A	-1	-A	-3	-C	-/C	/C	3	C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	1
$\chi_{100}^{(96)}$	/A	A	-A	-1	-/A	-3	-/C	-C	C	3	/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	1
$\chi_{100}^{(97)}$	A	/A	/A	1	A	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	-1
$\chi_{100}^{(98)}$	/A	A	A	1	/A	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	-1
$\chi_{100}^{(99)}$	-A	-/A	-/A	-1	-A	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	1
$\chi_{100}^{(100)}$	-/A	-A	-A	-1	-/A	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	1
$\chi_{100}^{(101)}$	A	/A	-/A	-1	-A	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	-1
$\chi_{100}^{(102)}$	/A	A	-A	-1	-/A	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	-1
$\chi_{100}^{(103)}$	-A	-/A	/A	1	A	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	1
$\chi_{100}^{(104)}$	-/A	-A	A	1	/A	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	1
$\chi_{100}^{(105)}$	A	/A	/A	1	A	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	-1

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$\chi_{100}^{(106)}$	/A	A	A	1	/A	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	-1
$\chi_{100}^{(107)}$	-A	-/A	-/A	-1	-A	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	1
$\chi_{100}^{(108)}$	-/A	-A	-A	-1	-/A	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	1
$\chi_{100}^{(109)}$	A	/A	-/A	-1	-A	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	-1
$\chi_{100}^{(110)}$	/A	A	-A	-1	-/A	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	-1
$\chi_{100}^{(111)}$	-A	-/A	/A	1	A	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	1
$\chi_{100}^{(112)}$	-/A	-A	A	1	/A	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	1
$\chi_{100}^{(113)}$	-A	-/A	-/A	-1	-A	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	.	.	.	.	.	.	-1
$\chi_{100}^{(114)}$	-/A	-A	-A	-1	-/A	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	.	.	.	.	.	.	-1
$\chi_{100}^{(115)}$	A	/A	/A	1	A	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	.	.	.	.	.	.	1
$\chi_{100}^{(116)}$	/A	A	A	1	/A	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	.	.	.	.	.	.	1
$\chi_{100}^{(117)}$	-A	-/A	/A	1	A	-3	-C	-/C	/C	3	C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	-1
$\chi_{100}^{(118)}$	-/A	-A	A	1	/A	-3	-/C	-C	C	3	/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	-1
$\chi_{100}^{(119)}$	A	/A	-/A	-1	-A	-3	-C	-/C	/C	3	C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	1
$\chi_{100}^{(120)}$	/A	A	-A	-1	-/A	-3	-/C	-C	C	3	/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	1

	50										60											70			
$\chi_{100}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(2)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	-1
$\chi_{100}^{(3)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	1
$\chi_{100}^{(4)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	-1
$\chi_{100}^{(5)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	1
$\chi_{100}^{(6)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	-1
$\chi_{100}^{(7)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	1
$\chi_{100}^{(8)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	-1
$\chi_{100}^{(9)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	1
$\chi_{100}^{(10)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(12)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(13)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(14)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(15)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(16)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(17)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	
$\chi_{100}^{(18)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	
$\chi_{100}^{(19)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	
$\chi_{100}^{(20)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	
$\chi_{100}^{(21)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	
$\chi_{100}^{(22)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	
$\chi_{100}^{(23)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	
$\chi_{100}^{(24)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	
$\chi_{100}^{(25)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	
$\chi_{100}^{(26)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	
$\chi_{100}^{(27)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	
$\chi_{100}^{(28)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	
$\chi_{100}^{(29)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	
$\chi_{100}^{(30)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	

	50											60												70
$\chi_{100}^{(31)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1
$\chi_{100}^{(32)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1
$\chi_{100}^{(33)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(34)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(35)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1
$\chi_{100}^{(36)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(37)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(38)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(39)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1
$\chi_{100}^{(40)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(41)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(42)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(43)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1
$\chi_{100}^{(44)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(45)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(46)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(47)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1
$\chi_{100}^{(48)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(49)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1
$\chi_{100}^{(50)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1
$\chi_{100}^{(51)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	1
$\chi_{100}^{(52)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	1
$\chi_{100}^{(53)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1
$\chi_{100}^{(54)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1
$\chi_{100}^{(55)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	1
$\chi_{100}^{(56)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	1
$\chi_{100}^{(57)}$	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1
$\chi_{100}^{(58)}$	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1
$\chi_{100}^{(59)}$	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1
$\chi_{100}^{(60)}$	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1
$\chi_{100}^{(61)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	1
$\chi_{100}^{(62)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	1
$\chi_{100}^{(63)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	/B	2	B	-2	-B	-/B	/B	2	B	1
$\chi_{100}^{(64)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	B	2	/B	-2	-/B	-B	B	2	/B	1
$\chi_{100}^{(65)}$	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1
$\chi_{100}^{(66)}$	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1
$\chi_{100}^{(67)}$	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1
$\chi_{100}^{(68)}$	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1
$\chi_{100}^{(69)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	1
$\chi_{100}^{(70)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	1
$\chi_{100}^{(71)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	/B	2	B	-2	-B	-/B	/B	2	B	1
$\chi_{100}^{(72)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	B	2	/B	-2	-/B	-B	B	2	/B	1
$\chi_{100}^{(73)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	3	3	3	3	3	3	.
$\chi_{100}^{(74)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	3	3	.
$\chi_{100}^{(75)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	3	3	3	-3	-3	-3	.

	50											60									70			
$\chi_{100}^{(76)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	3	3	3	-3	-3	-3	.
$\chi_{100}^{(77)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3	.
$\chi_{100}^{(78)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3	.
$\chi_{100}^{(79)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-3	-3	-3	3	3	3	.
$\chi_{100}^{(80)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-3	-3	-3	3	3	3	.
$\chi_{100}^{(81)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	3	3	3	3	3	3	.
$\chi_{100}^{(82)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	3	3	.
$\chi_{100}^{(83)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	3	3	3	-3	-3	-3	.
$\chi_{100}^{(84)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	3	3	3	-3	-3	-3	.
$\chi_{100}^{(85)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3	.
$\chi_{100}^{(86)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3	.
$\chi_{100}^{(87)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-3	-3	-3	3	3	3	.
$\chi_{100}^{(88)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-3	-3	-3	3	3	3	.
$\chi_{100}^{(89)}$	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	3	C	/C	/C	3	C	.
$\chi_{100}^{(90)}$	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	3	/C	C	C	3	/C	.
$\chi_{100}^{(91)}$	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	3	C	/C	/C	3	C	.
$\chi_{100}^{(92)}$	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	3	/C	C	C	3	/C	.
$\chi_{100}^{(93)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	3	C	/C	-/C	-3	-C	.
$\chi_{100}^{(94)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	3	/C	C	-C	-3	-/C	.
$\chi_{100}^{(95)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	3	C	/C	-/C	-3	-C	.
$\chi_{100}^{(96)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	3	/C	C	-C	-3	-/C	.
$\chi_{100}^{(97)}$	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-3	-C	-/C	-/C	-3	-C	.
$\chi_{100}^{(98)}$	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-3	-/C	-C	-C	-3	-/C	.
$\chi_{100}^{(99)}$	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-3	-C	-/C	-/C	-3	-C	.
$\chi_{100}^{(100)}$	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-3	-/C	-C	-C	-3	-/C	.
$\chi_{100}^{(101)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-3	-C	-/C	/C	3	C	.
$\chi_{100}^{(102)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-3	-/C	-C	C	3	/C	.
$\chi_{100}^{(103)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-3	-C	-/C	/C	3	C	.
$\chi_{100}^{(104)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-3	-/C	-C	C	3	/C	.
$\chi_{100}^{(105)}$	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	3	C	/C	/C	3	C	.
$\chi_{100}^{(106)}$	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	3	/C	C	C	3	/C	.
$\chi_{100}^{(107)}$	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	3	C	/C	/C	3	C	.
$\chi_{100}^{(108)}$	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	3	/C	C	C	3	/C	.
$\chi_{100}^{(109)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	3	C	/C	-/C	-3	-C	.
$\chi_{100}^{(110)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	3	/C	C	-C	-3	-/C	.
$\chi_{100}^{(111)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	3	C	/C	-/C	-3	-C	.
$\chi_{100}^{(112)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	3	/C	C	-C	-3	-/C	.
$\chi_{100}^{(113)}$	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-3	-C	-/C	-/C	-3	-C	.
$\chi_{100}^{(114)}$	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-3	-/C	-C	-C	-3	-/C	.
$\chi_{100}^{(115)}$	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-3	-C	-/C	-/C	-3	-C	.
$\chi_{100}^{(116)}$	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-3	-/C	-C	-C	-3	-/C	.
$\chi_{100}^{(117)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-3	-C	-/C	/C	3	C	.
$\chi_{100}^{(118)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-3	-/C	-C	C	3	/C	.
$\chi_{100}^{(119)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-3	-C	-/C	/C	3	C	.
$\chi_{100}^{(120)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-3	-/C	-C	C	3	/C	.

	80																90							
$\chi_{100}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(2)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{100}^{(3)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{100}^{(4)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1
$\chi_{100}^{(5)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1
$\chi_{100}^{(6)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1
$\chi_{100}^{(7)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1
$\chi_{100}^{(8)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{100}^{(9)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{100}^{(10)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(11)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(12)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(13)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{100}^{(14)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{100}^{(15)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(16)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(17)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1
$\chi_{100}^{(18)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1
$\chi_{100}^{(19)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1
$\chi_{100}^{(20)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1
$\chi_{100}^{(21)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1
$\chi_{100}^{(22)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1
$\chi_{100}^{(23)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1
$\chi_{100}^{(24)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1
$\chi_{100}^{(25)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1
$\chi_{100}^{(26)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1
$\chi_{100}^{(27)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1
$\chi_{100}^{(28)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1
$\chi_{100}^{(29)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1
$\chi_{100}^{(30)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1
$\chi_{100}^{(31)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1
$\chi_{100}^{(32)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1
$\chi_{100}^{(33)}$	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1
$\chi_{100}^{(34)}$	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(35)}$	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(36)}$	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(37)}$	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(38)}$	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(39)}$	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1
$\chi_{100}^{(40)}$	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(41)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1
$\chi_{100}^{(42)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(43)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1
$\chi_{100}^{(44)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(45)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1

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$\chi_{100}^{(46)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{100}^{(47)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1
$\chi_{100}^{(48)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1
$\chi_{100}^{(49)}$	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2
$\chi_{100}^{(50)}$	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	-2
$\chi_{100}^{(51)}$	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2
$\chi_{100}^{(52)}$	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	-2
$\chi_{100}^{(53)}$	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2
$\chi_{100}^{(54)}$	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	2
$\chi_{100}^{(55)}$	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2
$\chi_{100}^{(56)}$	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	2
$\chi_{100}^{(57)}$	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	-2
$\chi_{100}^{(58)}$	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	-2
$\chi_{100}^{(59)}$	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	/B	2	B	-2
$\chi_{100}^{(60)}$	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	B	2	/B	-2
$\chi_{100}^{(61)}$	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	-2
$\chi_{100}^{(62)}$	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	-2
$\chi_{100}^{(63)}$	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	/B	2	B	-2
$\chi_{100}^{(64)}$	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	B	2	/B	-2
$\chi_{100}^{(65)}$	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	/B	2	B	2
$\chi_{100}^{(66)}$	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	B	2	/B	2
$\chi_{100}^{(67)}$	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	-/B	-2	-B	2
$\chi_{100}^{(68)}$	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	-B	-2	-/B	2
$\chi_{100}^{(69)}$	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	/B	2	B	2
$\chi_{100}^{(70)}$	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	B	2	/B	2
$\chi_{100}^{(71)}$	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	-/B	-2	-B	2
$\chi_{100}^{(72)}$	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	-B	-2	-/B	2
$\chi_{100}^{(73)}$	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-3
$\chi_{100}^{(74)}$	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-3
$\chi_{100}^{(75)}$	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-3
$\chi_{100}^{(76)}$	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-3
$\chi_{100}^{(77)}$	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-3
$\chi_{100}^{(78)}$	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-3
$\chi_{100}^{(79)}$	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-3
$\chi_{100}^{(80)}$	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-3
$\chi_{100}^{(81)}$	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	3
$\chi_{100}^{(82)}$	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3
$\chi_{100}^{(83)}$	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	3
$\chi_{100}^{(84)}$	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	3
$\chi_{100}^{(85)}$	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	3
$\chi_{100}^{(86)}$	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3
$\chi_{100}^{(87)}$	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	3
$\chi_{100}^{(88)}$	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	3
$\chi_{100}^{(89)}$	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-3
$\chi_{100}^{(90)}$	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-3

	80													90										
$\chi_{100}^{(91)}$	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-3
$\chi_{100}^{(92)}$	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-3
$\chi_{100}^{(93)}$	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-3
$\chi_{100}^{(94)}$	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-3
$\chi_{100}^{(95)}$	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-3
$\chi_{100}^{(96)}$	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-3
$\chi_{100}^{(97)}$	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-3
$\chi_{100}^{(98)}$	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-3
$\chi_{100}^{(99)}$	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-3
$\chi_{100}^{(100)}$	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-3
$\chi_{100}^{(101)}$	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-3
$\chi_{100}^{(102)}$	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-3
$\chi_{100}^{(103)}$	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-3
$\chi_{100}^{(104)}$	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-3
$\chi_{100}^{(105)}$	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	3
$\chi_{100}^{(106)}$	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	3
$\chi_{100}^{(107)}$	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	3
$\chi_{100}^{(108)}$	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	3
$\chi_{100}^{(109)}$	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	3
$\chi_{100}^{(110)}$	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	3
$\chi_{100}^{(111)}$	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	3
$\chi_{100}^{(112)}$	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	3
$\chi_{100}^{(113)}$	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	3
$\chi_{100}^{(114)}$	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	3
$\chi_{100}^{(115)}$	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	3
$\chi_{100}^{(116)}$	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	3
$\chi_{100}^{(117)}$	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	3
$\chi_{100}^{(118)}$	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	3
$\chi_{100}^{(119)}$	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	3
$\chi_{100}^{(120)}$	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	3

	100												110										120
$\chi_{100}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(2)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{100}^{(3)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{100}^{(4)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{100}^{(5)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{100}^{(6)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{100}^{(7)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{100}^{(8)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{100}^{(9)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{100}^{(10)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(11)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(12)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(13)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(14)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{100}^{(15)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

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$\chi_{100}^{(16)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(17)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{100}^{(18)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{100}^{(19)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{100}^{(20)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{100}^{(21)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{100}^{(22)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{100}^{(23)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{100}^{(24)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{100}^{(25)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{100}^{(26)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{100}^{(27)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{100}^{(28)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{100}^{(29)}$	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{100}^{(30)}$	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{100}^{(31)}$	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{100}^{(32)}$	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{100}^{(33)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{100}^{(34)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{100}^{(35)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{100}^{(36)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{100}^{(37)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{100}^{(38)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{100}^{(39)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{100}^{(40)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{100}^{(41)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{100}^{(42)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{100}^{(43)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{100}^{(44)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{100}^{(45)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{100}^{(46)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{100}^{(47)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{100}^{(48)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{100}^{(49)}$	-2	-2	-2	-2	-2	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(50)}$	-2	-2	2	2	2	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(51)}$	-2	-2	-2	-2	-2	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(52)}$	-2	-2	2	2	2	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(53)}$	2	2	2	2	2	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(54)}$	2	2	-2	-2	-2	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(55)}$	2	2	2	2	2	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(56)}$	2	2	-2	-2	-2	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(57)}$	-B	-/B	-/B	-2	-B	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(58)}$	-/B	-B	-B	-2	-/B	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(59)}$	-B	-/B	/B	2	B	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(60)}$	-/B	-B	B	2	/B	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.

	100											110											120
$\chi_{100}^{(61)}$	-B	-/B	-/B	-2	-B	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(62)}$	-/B	-B	-B	-2	-/B	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(63)}$	-B	-/B	/B	2	B	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(64)}$	-/B	-B	B	2	/B	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(65)}$	B	/B	/B	2	B	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(66)}$	/B	B	B	2	/B	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(67)}$	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(68)}$	/B	B	-B	-2	-/B	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(69)}$	B	/B	/B	2	B	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(70)}$	/B	B	B	2	/B	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(71)}$	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(72)}$	/B	B	-B	-2	-/B	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{100}^{(73)}$	-3	-3	-3	-3	-3	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{100}^{(74)}$	-3	-3	-3	-3	-3	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(75)}$	-3	-3	3	3	3	.	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{100}^{(76)}$	-3	-3	3	3	3	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{100}^{(77)}$	-3	-3	-3	-3	-3	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(78)}$	-3	-3	-3	-3	-3	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{100}^{(79)}$	-3	-3	3	3	3	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{100}^{(80)}$	-3	-3	3	3	3	.	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{100}^{(81)}$	3	3	3	3	3	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{100}^{(82)}$	3	3	3	3	3	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(83)}$	3	3	-3	-3	-3	.	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{100}^{(84)}$	3	3	-3	-3	-3	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{100}^{(85)}$	3	3	3	3	3	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{100}^{(86)}$	3	3	3	3	3	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{100}^{(87)}$	3	3	-3	-3	-3	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{100}^{(88)}$	3	3	-3	-3	-3	.	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{100}^{(89)}$	-C	-/C	-/C	-3	-C	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A
$\chi_{100}^{(90)}$	-/C	-C	-C	-3	-/C	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A
$\chi_{100}^{(91)}$	-C	-/C	-/C	-3	-C	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{100}^{(92)}$	-/C	-C	-C	-3	-/C	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{100}^{(93)}$	-C	-/C	/C	3	C	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{100}^{(94)}$	-/C	-C	C	3	/C	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{100}^{(95)}$	-C	-/C	/C	3	C	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{100}^{(96)}$	-/C	-C	C	3	/C	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{100}^{(97)}$	-C	-/C	-/C	-3	-C	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{100}^{(98)}$	-/C	-C	-C	-3	-/C	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{100}^{(99)}$	-C	-/C	-/C	-3	-C	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A
$\chi_{100}^{(100)}$	-/C	-C	-C	-3	-/C	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A
$\chi_{100}^{(101)}$	-C	-/C	/C	3	C	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{100}^{(102)}$	-/C	-C	C	3	/C	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{100}^{(103)}$	-C	-/C	/C	3	C	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{100}^{(104)}$	-/C	-C	C	3	/C	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{100}^{(105)}$	C	/C	/C	3	C	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A

	100											110										120
$\chi_{100}^{(106)}$	/C	C	C	3	/C	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A
$\chi_{100}^{(107)}$	C	/C	/C	3	C	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{100}^{(108)}$	/C	C	C	3	/C	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{100}^{(109)}$	C	/C	-/C	-3	-C	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{100}^{(110)}$	/C	C	-C	-3	-/C	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{100}^{(111)}$	C	/C	-/C	-3	-C	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{100}^{(112)}$	/C	C	-C	-3	-/C	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{100}^{(113)}$	C	/C	/C	3	C	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{100}^{(114)}$	/C	C	C	3	/C	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{100}^{(115)}$	C	/C	/C	3	C	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A
$\chi_{100}^{(116)}$	/C	C	C	3	/C	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A
$\chi_{100}^{(117)}$	C	/C	-/C	-3	-C	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{100}^{(118)}$	/C	C	-C	-3	-/C	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{100}^{(119)}$	C	/C	-/C	-3	-C	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{100}^{(120)}$	/C	C	-C	-3	-/C	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A

where A = E(3)^2 = (-1-ER(-3))/2 = -1-b3, B = 2*E(3)^2 = -1-ER(-3) = -1-i3, C = 3*E(3)^2 = (-3-3*ER(-3))/2 = -3-3b3.

The generators of $G^{s_{101}}$ are:

$$\begin{pmatrix} 1 & 1 & -1 & 0 & 0 & 1 & -2 & 0 \\ 2 & 1 & -3 & 1 & 0 & 1 & -2 & 0 \\ 2 & 2 & -3 & 1 & 0 & 1 & -3 & 0 \\ 3 & 2 & -5 & 2 & 0 & 2 & -5 & 1 \\ 2 & 2 & -4 & 2 & -1 & 2 & -4 & 1 \\ 1 & 2 & -3 & 1 & 0 & 1 & -3 & 1 \\ 1 & 2 & -2 & 0 & 0 & 1 & -2 & 1 \\ 0 & 1 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 0 & 0 & 1 & 0 \\ 0 & 2 & 0 & -1 & 0 & 0 & 1 & 0 \\ 0 & 2 & 1 & -2 & 0 & 0 & 2 & 0 \\ 0 & 3 & 0 & -2 & 0 & 0 & 3 & 0 \\ 0 & 2 & 0 & -1 & -1 & 1 & 2 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 2 & -2 & 0 \\ 2 & 1 & -2 & 0 & 0 & 2 & -2 & -1 \\ 2 & 1 & -2 & 0 & 0 & 3 & -3 & -1 \\ 4 & 1 & -3 & 0 & 0 & 4 & -4 & -2 \\ 3 & 1 & -2 & 0 & -1 & 4 & -3 & -2 \\ 2 & 1 & -1 & -1 & 0 & 3 & -2 & -2 \\ 2 & 1 & -1 & -1 & 0 & 2 & -1 & -1 \\ 1 & 1 & 0 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{101}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 1 & 1 & 0 & -1 & 1 & -1 \\ -2 & -2 & 2 & 1 & 0 & -2 & 2 & -1 \\ -3 & -3 & 2 & 2 & 0 & -2 & 2 & -2 \\ -4 & -4 & 4 & 2 & 0 & -3 & 3 & -3 \\ -3 & -3 & 3 & 2 & -1 & -2 & 3 & -3 \\ -2 & -2 & 2 & 1 & 0 & -2 & 3 & -3 \\ -2 & -1 & 2 & 0 & 0 & -1 & 2 & -2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 2 & 0 & 0 & 0 & 0 & 0 \\ -3 & -1 & 3 & 0 & 0 & -1 & 1 & -1 \\ -4 & -2 & 4 & 0 & 0 & 0 & 0 & -1 \\ -5 & -3 & 6 & 0 & 0 & -1 & 1 & -2 \\ -4 & -2 & 5 & -1 & 1 & -1 & 1 & -2 \\ -3 & -1 & 4 & -1 & 0 & 0 & 1 & -2 \\ -2 & -1 & 3 & -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 2 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -2 & -1 & 2 & 0 & 0 & 0 & 0 & 0 \\ -3 & -1 & 3 & 0 & 0 & -1 & 1 & -1 \\ -4 & -2 & 4 & 0 & 0 & 0 & 0 & -1 \\ -5 & -3 & 6 & 0 & 0 & -1 & 1 & -2 \\ -4 & -2 & 5 & 0 & -1 & 0 & 1 & -2 \\ -3 & -1 & 4 & -1 & 0 & 0 & 1 & -2 \\ -2 & -1 & 3 & -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 2 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 2 & -1 \\ -2 & -1 & 2 & 0 & 0 & -2 & 3 & -1 \\ -3 & -1 & 2 & 0 & 0 & -2 & 4 & -2 \\ -4 & -1 & 4 & -1 & 0 & -3 & 6 & -3 \\ -3 & -1 & 3 & -1 & 1 & -3 & 5 & -3 \\ -2 & -1 & 2 & 0 & 0 & -2 & 4 & -3 \\ -2 & -1 & 2 & 0 & 0 & -1 & 2 & -2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 2 & -1 \\ -2 & -1 & 2 & 0 & 0 & -2 & 3 & -1 \\ -3 & -1 & 2 & 0 & 0 & -2 & 4 & -2 \\ -4 & -1 & 4 & -1 & 0 & -3 & 6 & -3 \\ -3 & -1 & 3 & 0 & -1 & -2 & 5 & -3 \\ -2 & -1 & 2 & 0 & 0 & -2 & 4 & -3 \\ -2 & -1 & 2 & 0 & 0 & -1 & 2 & -2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 0 & 2 & -1 & 0 & 0 & 1 & 0 \\ -3 & 0 & 3 & -1 & 0 & -1 & 2 & -1 \\ -4 & 0 & 4 & -2 & 0 & 0 & 2 & -1 \\ -5 & 0 & 6 & -3 & 0 & -1 & 4 & -2 \\ -4 & 0 & 5 & -3 & 1 & -1 & 3 & -2 \\ -3 & 0 & 4 & -2 & 0 & 0 & 2 & -2 \\ -2 & -1 & 3 & -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 2 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 2 & -1 & 0 & 0 & 1 & 0 \\ -3 & 0 & 3 & -1 & 0 & -1 & 2 & -1 \\ -4 & 0 & 4 & -2 & 0 & 0 & 2 & -1 \\ -5 & 0 & 6 & -3 & 0 & -1 & 4 & -2 \\ -4 & 0 & 5 & -2 & -1 & 0 & 3 & -2 \\ -3 & 0 & 4 & -2 & 0 & 0 & 2 & -2 \\ -2 & -1 & 3 & -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 2 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 2 & 0 & 0 & -1 & 0 & 0 \\ -3 & -1 & 2 & 1 & 0 & -2 & 1 & 0 \\ -4 & -1 & 3 & 1 & 0 & -2 & 0 & 0 \\ -6 & -2 & 4 & 2 & 0 & -3 & 0 & 1 \\ -5 & -1 & 3 & 1 & 1 & -3 & 0 & 1 \\ -4 & 0 & 2 & 1 & 0 & -2 & 0 & 1 \\ -3 & 0 & 2 & 0 & 0 & -1 & 0 & 1 \\ -2 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 0 & 2 & 0 & 0 & -1 & 0 & 0 \\ -3 & -1 & 2 & 1 & 0 & -2 & 1 & 0 \\ -4 & -1 & 3 & 1 & 0 & -2 & 0 & 0 \\ -6 & -2 & 4 & 2 & 0 & -3 & 0 & 1 \\ -5 & -1 & 3 & 2 & -1 & -2 & 0 & 1 \\ -4 & 0 & 2 & 1 & 0 & -2 & 0 & 1 \\ -3 & 0 & 2 & 0 & 0 & -1 & 0 & 1 \\ -2 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 2 & -1 & 0 & -1 & 1 & 0 \\ -3 & 0 & 2 & 0 & 0 & -2 & 2 & 0 \\ -4 & 1 & 3 & -1 & 0 & -2 & 2 & 0 \\ -6 & 1 & 4 & -1 & 0 & -3 & 3 & 1 \\ -5 & 1 & 3 & -1 & 1 & -3 & 2 & 1 \\ -4 & 1 & 2 & 0 & 0 & -2 & 1 & 1 \\ -3 & 0 & 2 & 0 & 0 & -1 & 0 & 1 \\ -2 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 2 & -1 & 0 & -1 & 1 & 0 \\ -3 & 0 & 2 & 0 & 0 & -2 & 2 & 0 \\ -4 & 1 & 3 & -1 & 0 & -2 & 2 & 0 \\ -6 & 1 & 4 & -1 & 0 & -3 & 3 & 1 \\ -5 & 1 & 3 & 0 & -1 & -2 & 2 & 1 \\ -4 & 1 & 2 & 0 & 0 & -2 & 1 & 1 \\ -3 & 0 & 2 & 0 & 0 & -1 & 0 & 1 \\ -2 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -2 & 1 & 1 & 0 & -1 & 1 & 0 \\ -2 & -2 & 3 & 0 & 0 & -1 & 1 & 0 \\ -2 & -4 & 3 & 1 & 0 & -1 & 1 & 0 \\ -3 & -5 & 5 & 1 & 0 & -2 & 2 & -1 \\ -2 & -4 & 4 & 0 & 1 & -2 & 2 & -1 \\ -1 & -3 & 3 & 0 & 0 & -1 & 2 & -1 \\ -1 & -2 & 2 & 0 & 0 & -1 & 2 & -1 \\ 0 & -1 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -2 & 1 & 1 & 0 & -1 & 1 & 0 \\ -2 & -2 & 3 & 0 & 0 & -1 & 1 & 0 \\ -2 & -4 & 3 & 1 & 0 & -1 & 1 & 0 \\ -3 & -5 & 5 & 1 & 0 & -2 & 2 & -1 \\ -2 & -4 & 4 & 1 & -1 & -1 & 2 & -1 \\ -1 & -3 & 3 & 0 & 0 & -1 & 2 & -1 \\ -1 & -2 & 2 & 0 & 0 & -1 & 2 & -1 \\ 0 & -1 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 0 & -1 & 0 \\ 0 & -2 & 0 & 1 & 0 & 0 & -1 & 0 \\ 0 & -2 & -1 & 2 & 0 & 0 & -2 & 0 \\ 0 & -3 & 0 & 2 & 0 & 0 & -3 & 0 \\ 0 & -2 & 0 & 1 & 1 & -1 & -2 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 0 & -1 & 0 \\ 0 & -2 & 0 & 1 & 0 & 0 & -1 & 0 \\ 0 & -2 & -1 & 2 & 0 & 0 & -2 & 0 \\ 0 & -3 & 0 & 2 & 0 & 0 & -3 & 0 \\ 0 & -2 & 0 & 2 & -1 & 0 & -2 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 0 & -1 & 2 & 0 \\ -2 & -1 & 3 & -1 & 0 & -1 & 2 & 0 \\ -2 & -2 & 3 & -1 & 0 & -1 & 3 & 0 \\ -3 & -2 & 5 & -2 & 0 & -2 & 5 & -1 \\ -2 & -2 & 4 & -2 & 1 & -2 & 4 & -1 \\ -1 & -2 & 3 & -1 & 0 & -1 & 3 & -1 \\ -1 & -2 & 2 & 0 & 0 & -1 & 2 & -1 \\ 0 & -1 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 0 & -1 & 2 & 0 \\ -2 & -1 & 3 & -1 & 0 & -1 & 2 & 0 \\ -2 & -2 & 3 & -1 & 0 & -1 & 3 & 0 \\ -3 & -2 & 5 & -2 & 0 & -2 & 5 & -1 \\ -2 & -2 & 4 & -1 & -1 & -1 & 4 & -1 \\ -1 & -2 & 3 & -1 & 0 & -1 & 3 & -1 \\ -1 & -2 & 2 & 0 & 0 & -1 & 2 & -1 \\ 0 & -1 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 0 & 1 & -2 & 1 \\ -1 & -1 & 1 & 0 & 0 & 1 & -2 & 0 \\ -1 & -1 & 1 & 0 & 0 & 2 & -4 & 1 \\ -1 & -2 & 2 & 0 & 0 & 2 & -5 & 1 \\ -1 & -1 & 2 & -1 & 1 & 1 & -4 & 1 \\ -1 & 0 & 2 & -1 & 0 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 0 & 1 & -2 & 1 \\ -1 & -1 & 1 & 0 & 0 & 1 & -2 & 0 \\ -1 & -1 & 1 & 0 & 0 & 2 & -4 & 1 \\ -1 & -2 & 2 & 0 & 0 & 2 & -5 & 1 \\ -1 & -1 & 2 & 0 & -1 & 2 & -4 & 1 \\ -1 & 0 & 2 & -1 & 0 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 0 & 1 & -1 & -1 \\ -1 & -2 & 0 & 1 & 0 & 1 & -1 & -1 \\ -1 & -2 & 0 & 1 & 0 & 2 & -2 & -2 \\ -2 & -4 & 0 & 2 & 0 & 3 & -3 & -2 \\ -2 & -3 & 0 & 1 & 1 & 2 & -2 & -2 \\ -2 & -2 & 0 & 1 & 0 & 2 & -1 & -2 \\ -1 & -1 & 0 & 0 & 0 & 2 & -1 & -1 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 0 & 1 & -1 & -1 \\ -1 & -2 & 0 & 1 & 0 & 1 & -1 & -1 \\ -1 & -2 & 0 & 1 & 0 & 2 & -2 & -2 \\ -2 & -4 & 0 & 2 & 0 & 3 & -3 & -2 \\ -2 & -3 & 0 & 2 & -1 & 3 & -2 & -2 \\ -2 & -2 & 0 & 1 & 0 & 2 & -1 & -2 \\ -1 & -1 & 0 & 0 & 0 & 2 & -1 & -1 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -2 & -2 & 2 & 1 & 0 & -2 & 1 & 1 \\ -2 & -3 & 2 & 2 & 0 & -3 & 1 & 1 \\ -4 & -4 & 3 & 3 & 0 & -4 & 1 & 2 \\ -3 & -3 & 2 & 2 & 1 & -4 & 1 & 2 \\ -2 & -2 & 1 & 2 & 0 & -3 & 1 & 2 \\ -2 & -1 & 1 & 1 & 0 & -2 & 1 & 1 \\ -1 & -1 & 0 & 1 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -2 & -2 & 2 & 1 & 0 & -2 & 1 & 1 \\ -2 & -3 & 2 & 2 & 0 & -3 & 1 & 1 \\ -4 & -4 & 3 & 3 & 0 & -4 & 1 & 2 \\ -3 & -3 & 2 & 3 & -1 & -3 & 1 & 2 \\ -2 & -2 & 1 & 2 & 0 & -3 & 1 & 2 \\ -2 & -1 & 1 & 1 & 0 & -2 & 1 & 1 \\ -1 & -1 & 0 & 1 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 2 & 0 & 0 & -1 & 0 & 1 \\ -3 & -1 & 3 & 0 & 0 & -1 & 0 & 1 \\ -3 & -2 & 4 & 0 & 0 & -1 & -1 & 2 \\ -5 & -3 & 5 & 1 & 0 & -2 & -1 & 3 \\ -4 & -2 & 4 & 0 & 1 & -2 & -1 & 3 \\ -3 & -1 & 3 & 0 & 0 & -1 & -1 & 3 \\ -2 & -1 & 2 & 0 & 0 & -1 & 0 & 2 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 2 & 0 & 0 & -1 & 0 & 1 \\ -3 & -1 & 3 & 0 & 0 & -1 & 0 & 1 \\ -3 & -2 & 4 & 0 & 0 & -1 & -1 & 2 \\ -5 & -3 & 5 & 1 & 0 & -2 & -1 & 3 \\ -4 & -2 & 4 & 1 & -1 & -1 & -1 & 3 \\ -3 & -1 & 3 & 0 & 0 & -1 & -1 & 3 \\ -2 & -1 & 2 & 0 & 0 & -1 & 0 & 2 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \\ -1 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \\ -1 & 1 & 1 & -2 & 0 & 2 & -2 & 1 \\ -1 & 1 & 2 & -3 & 0 & 2 & -2 & 1 \\ -1 & 1 & 2 & -3 & 1 & 1 & -2 & 1 \\ -1 & 1 & 2 & -2 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \\ -1 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \\ -1 & 1 & 1 & -2 & 0 & 2 & -2 & 1 \\ -1 & 1 & 2 & -3 & 0 & 2 & -2 & 1 \\ -1 & 1 & 2 & -2 & -1 & 2 & -2 & 1 \\ -1 & 1 & 2 & -2 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 1 & 0 & -1 \\ -1 & -1 & 0 & 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & -1 & 0 & 2 & 0 & -2 \\ -2 & -1 & 0 & -1 & 0 & 3 & 0 & -2 \\ -2 & -1 & 0 & -1 & 1 & 2 & 0 & -2 \\ -2 & -1 & 0 & 0 & 0 & 2 & 0 & -2 \\ -1 & -1 & 0 & 0 & 0 & 2 & -1 & -1 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 1 & 0 & -1 \\ -1 & -1 & 0 & 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & -1 & 0 & 2 & 0 & -2 \\ -2 & -1 & 0 & -1 & 0 & 3 & 0 & -2 \\ -2 & -1 & 0 & 0 & -1 & 3 & 0 & -2 \\ -2 & -1 & 0 & 0 & 0 & 2 & 0 & -2 \\ -1 & -1 & 0 & 0 & 0 & 2 & -1 & -1 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 0 & -2 & 2 & 0 \\ -2 & -1 & 2 & 0 & 0 & -2 & 2 & 1 \\ -2 & -1 & 2 & 0 & 0 & -3 & 3 & 1 \\ -4 & -1 & 3 & 0 & 0 & -4 & 4 & 2 \\ -3 & -1 & 2 & 0 & 1 & -4 & 3 & 2 \\ -2 & -1 & 1 & 1 & 0 & -3 & 2 & 2 \\ -2 & -1 & 1 & 1 & 0 & -2 & 1 & 1 \\ -1 & -1 & 0 & 1 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & 0 & 0 & -2 & 2 & 0 \\ -2 & -1 & 2 & 0 & 0 & -2 & 2 & 1 \\ -2 & -1 & 2 & 0 & 0 & -3 & 3 & 1 \\ -4 & -1 & 3 & 0 & 0 & -4 & 4 & 2 \\ -3 & -1 & 2 & 1 & -1 & -3 & 3 & 2 \\ -2 & -1 & 1 & 1 & 0 & -3 & 2 & 2 \\ -2 & -1 & 1 & 1 & 0 & -2 & 1 & 1 \\ -1 & -1 & 0 & 1 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & -1 & 1 & 1 \\ -3 & 0 & 3 & -1 & 0 & -1 & 1 & 1 \\ -3 & 0 & 4 & -2 & 0 & -1 & 1 & 2 \\ -5 & 0 & 5 & -2 & 0 & -2 & 2 & 3 \\ -4 & 0 & 4 & -2 & 1 & -2 & 1 & 3 \\ -3 & 0 & 3 & -1 & 0 & -1 & 0 & 3 \\ -2 & -1 & 2 & 0 & 0 & -1 & 0 & 2 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & -1 & 1 & 1 \\ -3 & 0 & 3 & -1 & 0 & -1 & 1 & 1 \\ -3 & 0 & 4 & -2 & 0 & -1 & 1 & 2 \\ -5 & 0 & 5 & -2 & 0 & -2 & 2 & 3 \\ -4 & 0 & 4 & -1 & -1 & -1 & 1 & 3 \\ -3 & 0 & 3 & -1 & 0 & -1 & 0 & 3 \\ -2 & -1 & 2 & 0 & 0 & -1 & 0 & 2 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 0 & 1 & 0 & 0 & -1 & 1 \\ 0 & -2 & 1 & 0 & 0 & 1 & -2 & 1 \\ 1 & -3 & 0 & 1 & 0 & 1 & -3 & 2 \\ 1 & -4 & 1 & 1 & 0 & 1 & -4 & 2 \\ 1 & -3 & 1 & 0 & 1 & 0 & -3 & 2 \\ 1 & -2 & 1 & 0 & 0 & 0 & -2 & 2 \\ 1 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 1 & 0 & 0 & -1 & 1 \\ 0 & -2 & 1 & 0 & 0 & 1 & -2 & 1 \\ 1 & -3 & 0 & 1 & 0 & 1 & -3 & 2 \\ 1 & -4 & 1 & 1 & 0 & 1 & -4 & 2 \\ 1 & -3 & 1 & 1 & -1 & 1 & -3 & 2 \\ 1 & -2 & 1 & 0 & 0 & 0 & -2 & 2 \\ 1 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 1 & 0 & 0 & 0 & -1 \\ 0 & -3 & 0 & 1 & 0 & 1 & -1 & 0 \\ 1 & -4 & -1 & 2 & 0 & 1 & -1 & -1 \\ 0 & -6 & -1 & 3 & 0 & 2 & -2 & -1 \\ 0 & -5 & -1 & 2 & 1 & 1 & -1 & -1 \\ 0 & -4 & -1 & 2 & 0 & 1 & 0 & -1 \\ 0 & -2 & -1 & 1 & 0 & 1 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 0 & 1 & 0 & 0 & 0 & -1 \\ 0 & -3 & 0 & 1 & 0 & 1 & -1 & 0 \\ 1 & -4 & -1 & 2 & 0 & 1 & -1 & -1 \\ 0 & -6 & -1 & 3 & 0 & 2 & -2 & -1 \\ 0 & -5 & -1 & 3 & -1 & 2 & -1 & -1 \\ 0 & -4 & -1 & 2 & 0 & 1 & 0 & -1 \\ 0 & -2 & -1 & 1 & 0 & 1 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 1 & 0 & 0 & 1 & -1 & 0 \\ -1 & -2 & 1 & 0 & 0 & 2 & -2 & 0 \\ 0 & -3 & 1 & 0 & 0 & 3 & -3 & 0 \\ -1 & -5 & 1 & 1 & 0 & 4 & -4 & 0 \\ -1 & -4 & 1 & 0 & 1 & 3 & -3 & 0 \\ -1 & -3 & 1 & 0 & 0 & 3 & -2 & 0 \\ 0 & -2 & 0 & 0 & 0 & 2 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 1 & 0 & 0 & 1 & -1 & 0 \\ -1 & -2 & 1 & 0 & 0 & 2 & -2 & 0 \\ 0 & -3 & 1 & 0 & 0 & 3 & -3 & 0 \\ -1 & -5 & 1 & 1 & 0 & 4 & -4 & 0 \\ -1 & -4 & 1 & 1 & -1 & 4 & -3 & 0 \\ -1 & -3 & 1 & 0 & 0 & 3 & -2 & 0 \\ 0 & -2 & 0 & 0 & 0 & 2 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & 1 & -1 & 0 & 1 & -1 & 1 \\ 1 & -1 & 0 & -1 & 0 & 1 & -1 & 2 \\ 1 & -1 & 1 & -2 & 0 & 1 & -1 & 2 \\ 1 & -1 & 1 & -2 & 1 & 0 & -1 & 2 \\ 1 & -1 & 1 & -1 & 0 & 0 & -1 & 2 \\ 1 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & 1 & -1 & 0 & 1 & -1 & 1 \\ 1 & -1 & 0 & -1 & 0 & 1 & -1 & 2 \\ 1 & -1 & 1 & -2 & 0 & 1 & -1 & 2 \\ 1 & -1 & 1 & -1 & -1 & 1 & -1 & 2 \\ 1 & -1 & 1 & -1 & 0 & 0 & -1 & 2 \\ 1 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \\ 0 & -2 & 0 & 0 & 0 & 1 & 0 & 0 \\ 1 & -2 & -1 & 0 & 0 & 1 & 1 & -1 \\ 0 & -3 & -1 & 0 & 0 & 2 & 1 & -1 \\ 0 & -3 & -1 & 0 & 1 & 1 & 1 & -1 \\ 0 & -3 & -1 & 1 & 0 & 1 & 1 & -1 \\ 0 & -2 & -1 & 1 & 0 & 1 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \\ 0 & -2 & 0 & 0 & 0 & 1 & 0 & 0 \\ 1 & -2 & -1 & 0 & 0 & 1 & 1 & -1 \\ 0 & -3 & -1 & 0 & 0 & 2 & 1 & -1 \\ 0 & -3 & -1 & 1 & -1 & 2 & 1 & -1 \\ 0 & -3 & -1 & 1 & 0 & 1 & 1 & -1 \\ 0 & -2 & -1 & 1 & 0 & 1 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 0 & 1 & 0 & 0 \\ -1 & -1 & 1 & -1 & 0 & 2 & -1 & 0 \\ 0 & -1 & 1 & -2 & 0 & 3 & -1 & 0 \\ -1 & -2 & 1 & -2 & 0 & 4 & -1 & 0 \\ -1 & -2 & 1 & -2 & 1 & 3 & -1 & 0 \\ -1 & -2 & 1 & -1 & 0 & 3 & -1 & 0 \\ 0 & -2 & 0 & 0 & 0 & 2 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 0 & 1 & 0 & 0 \\ -1 & -1 & 1 & -1 & 0 & 2 & -1 & 0 \\ 0 & -1 & 1 & -2 & 0 & 3 & -1 & 0 \\ -1 & -2 & 1 & -2 & 0 & 4 & -1 & 0 \\ -1 & -2 & 1 & -1 & -1 & 4 & -1 & 0 \\ -1 & -2 & 1 & -1 & 0 & 3 & -1 & 0 \\ 0 & -2 & 0 & 0 & 0 & 2 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & 1 & 0 & -1 & 0 & 0 \\ 1 & 1 & -1 & 1 & 0 & -2 & 1 & 0 \\ 0 & 1 & -1 & 2 & 0 & -3 & 1 & 0 \\ 1 & 2 & -1 & 2 & 0 & -4 & 1 & 0 \\ 1 & 2 & -1 & 1 & 1 & -4 & 1 & 0 \\ 1 & 2 & -1 & 1 & 0 & -3 & 1 & 0 \\ 0 & 2 & 0 & 0 & 0 & -2 & 1 & 0 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & 0 & -1 & 0 & 0 \\ 1 & 1 & -1 & 1 & 0 & -2 & 1 & 0 \\ 0 & 1 & -1 & 2 & 0 & -3 & 1 & 0 \\ 1 & 2 & -1 & 2 & 0 & -4 & 1 & 0 \\ 1 & 2 & -1 & 2 & -1 & -3 & 1 & 0 \\ 1 & 2 & -1 & 1 & 0 & -3 & 1 & 0 \\ 0 & 2 & 0 & 0 & 0 & -2 & 1 & 0 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 0 & 2 & 0 & 0 & 0 & -1 & 0 & 0 \\ -1 & 2 & 1 & 0 & 0 & -1 & -1 & 1 \\ 0 & 3 & 1 & 0 & 0 & -2 & -1 & 1 \\ 0 & 3 & 1 & -1 & 1 & -2 & -1 & 1 \\ 0 & 3 & 1 & -1 & 0 & -1 & -1 & 1 \\ 0 & 2 & 1 & -1 & 0 & -1 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 0 & 2 & 0 & 0 & 0 & -1 & 0 & 0 \\ -1 & 2 & 1 & 0 & 0 & -1 & -1 & 1 \\ 0 & 3 & 1 & 0 & 0 & -2 & -1 & 1 \\ 0 & 3 & 1 & 0 & -1 & -1 & -1 & 1 \\ 0 & 3 & 1 & -1 & 0 & -1 & -1 & 1 \\ 0 & 2 & 1 & -1 & 0 & -1 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & 0 & 0 & 0 & -1 \\ 0 & 1 & -1 & 1 & 0 & -1 & 1 & -1 \\ -1 & 1 & 0 & 1 & 0 & -1 & 1 & -2 \\ -1 & 1 & -1 & 2 & 0 & -1 & 1 & -2 \\ -1 & 1 & -1 & 1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 1 & 0 & 0 & 1 & -2 \\ -1 & 1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & 0 & 0 & 0 & -1 \\ 0 & 1 & -1 & 1 & 0 & -1 & 1 & -1 \\ -1 & 1 & 0 & 1 & 0 & -1 & 1 & -2 \\ -1 & 1 & -1 & 2 & 0 & -1 & 1 & -2 \\ -1 & 1 & -1 & 2 & -1 & 0 & 1 & -2 \\ -1 & 1 & -1 & 1 & 0 & 0 & 1 & -2 \\ -1 & 1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 2 & -1 & 0 & 0 & -1 & 1 & 0 \\ 1 & 2 & -1 & 0 & 0 & -2 & 2 & 0 \\ 0 & 3 & -1 & 0 & 0 & -3 & 3 & 0 \\ 1 & 5 & -1 & -1 & 0 & -4 & 4 & 0 \\ 1 & 4 & -1 & -1 & 1 & -4 & 3 & 0 \\ 1 & 3 & -1 & 0 & 0 & -3 & 2 & 0 \\ 0 & 2 & 0 & 0 & 0 & -2 & 1 & 0 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & -1 & 0 & 0 & -1 & 1 & 0 \\ 1 & 2 & -1 & 0 & 0 & -2 & 2 & 0 \\ 0 & 3 & -1 & 0 & 0 & -3 & 3 & 0 \\ 1 & 5 & -1 & -1 & 0 & -4 & 4 & 0 \\ 1 & 4 & -1 & 0 & -1 & -3 & 3 & 0 \\ 1 & 3 & -1 & 0 & 0 & -3 & 2 & 0 \\ 0 & 2 & 0 & 0 & 0 & -2 & 1 & 0 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & 0 & 0 & 0 & 1 \\ 0 & 3 & 0 & -1 & 0 & -1 & 1 & 0 \\ -1 & 4 & 1 & -2 & 0 & -1 & 1 & 1 \\ 0 & 6 & 1 & -3 & 0 & -2 & 2 & 1 \\ 0 & 5 & 1 & -3 & 1 & -2 & 1 & 1 \\ 0 & 4 & 1 & -2 & 0 & -1 & 0 & 1 \\ 0 & 2 & 1 & -1 & 0 & -1 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 2 & 0 & -1 & 0 & 0 & 0 & 1 \\ 0 & 3 & 0 & -1 & 0 & -1 & 1 & 0 \\ -1 & 4 & 1 & -2 & 0 & -1 & 1 & 1 \\ 0 & 6 & 1 & -3 & 0 & -2 & 2 & 1 \\ 0 & 5 & 1 & -2 & -1 & -1 & 1 & 1 \\ 0 & 4 & 1 & -2 & 0 & -1 & 0 & 1 \\ 0 & 2 & 1 & -1 & 0 & -1 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & 0 & 0 & 1 & -1 \\ 0 & 2 & -1 & 0 & 0 & -1 & 2 & -1 \\ -1 & 3 & 0 & -1 & 0 & -1 & 3 & -2 \\ -1 & 4 & -1 & -1 & 0 & -1 & 4 & -2 \\ -1 & 3 & -1 & -1 & 1 & -1 & 3 & -2 \\ -1 & 2 & -1 & 0 & 0 & 0 & 2 & -2 \\ -1 & 1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & 0 & 0 & 1 & -1 \\ 0 & 2 & -1 & 0 & 0 & -1 & 2 & -1 \\ -1 & 3 & 0 & -1 & 0 & -1 & 3 & -2 \\ -1 & 4 & -1 & -1 & 0 & -1 & 4 & -2 \\ -1 & 3 & -1 & 0 & -1 & 0 & 3 & -2 \\ -1 & 2 & -1 & 0 & 0 & 0 & 2 & -2 \\ -1 & 1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -2 & 1 & 0 & 1 & -1 & -1 \\ 3 & 0 & -3 & 1 & 0 & 1 & -1 & -1 \\ 3 & 0 & -4 & 2 & 0 & 1 & -1 & -2 \\ 5 & 0 & -5 & 2 & 0 & 2 & -2 & -3 \\ 4 & 0 & -4 & 1 & 1 & 1 & -1 & -3 \\ 3 & 0 & -3 & 1 & 0 & 1 & 0 & -3 \\ 2 & 1 & -2 & 0 & 0 & 1 & 0 & -2 \\ 1 & 1 & -1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -2 & 1 & 0 & 1 & -1 & -1 \\ 3 & 0 & -3 & 1 & 0 & 1 & -1 & -1 \\ 3 & 0 & -4 & 2 & 0 & 1 & -1 & -2 \\ 5 & 0 & -5 & 2 & 0 & 2 & -2 & -3 \\ 4 & 0 & -4 & 2 & -1 & 2 & -1 & -3 \\ 3 & 0 & -3 & 1 & 0 & 1 & 0 & -3 \\ 2 & 1 & -2 & 0 & 0 & 1 & 0 & -2 \\ 1 & 1 & -1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 2 & -2 & 0 \\ 2 & 1 & -2 & 0 & 0 & 2 & -2 & -1 \\ 2 & 1 & -2 & 0 & 0 & 3 & -3 & -1 \\ 4 & 1 & -3 & 0 & 0 & 4 & -4 & -2 \\ 3 & 1 & -2 & -1 & 1 & 3 & -3 & -2 \\ 2 & 1 & -1 & -1 & 0 & 3 & -2 & -2 \\ 2 & 1 & -1 & -1 & 0 & 2 & -1 & -1 \\ 1 & 1 & 0 & -1 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 2 & -2 & 0 \\ 2 & 1 & -2 & 0 & 0 & 2 & -2 & -1 \\ 2 & 1 & -2 & 0 & 0 & 3 & -3 & -1 \\ 4 & 1 & -3 & 0 & 0 & 4 & -4 & -2 \\ 3 & 1 & -2 & 0 & -1 & 4 & -3 & -2 \\ 2 & 1 & -1 & -1 & 0 & 3 & -2 & -2 \\ 2 & 1 & -1 & -1 & 0 & 2 & -1 & -1 \\ 1 & 1 & 0 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & 0 & -1 & 0 & 1 \\ 1 & 1 & 0 & 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 1 & 0 & -2 & 0 & 2 \\ 2 & 1 & 0 & 1 & 0 & -3 & 0 & 2 \\ 2 & 1 & 0 & 0 & 1 & -3 & 0 & 2 \\ 2 & 1 & 0 & 0 & 0 & -2 & 0 & 2 \\ 1 & 1 & 0 & 0 & 0 & -2 & 1 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & 0 & -1 & 0 & 1 \\ 1 & 1 & 0 & 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 1 & 0 & -2 & 0 & 2 \\ 2 & 1 & 0 & 1 & 0 & -3 & 0 & 2 \\ 2 & 1 & 0 & 1 & -1 & -2 & 0 & 2 \\ 2 & 1 & 0 & 0 & 0 & -2 & 0 & 2 \\ 1 & 1 & 0 & 0 & 0 & -2 & 1 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 1 & 0 & -1 & 1 & -1 \\ 1 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \\ 1 & -1 & -1 & 2 & 0 & -2 & 2 & -1 \\ 1 & -1 & -2 & 3 & 0 & -2 & 2 & -1 \\ 1 & -1 & -2 & 2 & 1 & -2 & 2 & -1 \\ 1 & -1 & -2 & 2 & 0 & -1 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & 0 & -1 & 1 & -1 \\ 1 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \\ 1 & -1 & -1 & 2 & 0 & -2 & 2 & -1 \\ 1 & -1 & -2 & 3 & 0 & -2 & 2 & -1 \\ 1 & -1 & -2 & 3 & -1 & -1 & 2 & -1 \\ 1 & -1 & -2 & 2 & 0 & -1 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 1 & 1 & 0 & -1 & 1 & -1 \\ -2 & -2 & 2 & 1 & 0 & -2 & 2 & -1 \\ -3 & -3 & 2 & 2 & 0 & -2 & 2 & -2 \\ -4 & -4 & 4 & 2 & 0 & -3 & 3 & -3 \\ -3 & -3 & 3 & 1 & 1 & -3 & 3 & -3 \\ -2 & -2 & 2 & 1 & 0 & -2 & 3 & -3 \\ -2 & -1 & 2 & 0 & 0 & -1 & 2 & -2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -2 & 0 & 0 & 1 & 0 & -1 \\ 3 & 1 & -3 & 0 & 0 & 1 & 0 & -1 \\ 3 & 2 & -4 & 0 & 0 & 1 & 1 & -2 \\ 5 & 3 & -5 & -1 & 0 & 2 & 1 & -3 \\ 4 & 2 & -4 & -1 & 1 & 1 & 1 & -3 \\ 3 & 1 & -3 & 0 & 0 & 1 & 1 & -3 \\ 2 & 1 & -2 & 0 & 0 & 1 & 0 & -2 \\ 1 & 1 & -1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -2 & 0 & 0 & 1 & 0 & -1 \\ 3 & 1 & -3 & 0 & 0 & 1 & 0 & -1 \\ 3 & 2 & -4 & 0 & 0 & 1 & 1 & -2 \\ 5 & 3 & -5 & -1 & 0 & 2 & 1 & -3 \\ 4 & 2 & -4 & 0 & -1 & 2 & 1 & -3 \\ 3 & 1 & -3 & 0 & 0 & 1 & 1 & -3 \\ 2 & 1 & -2 & 0 & 0 & 1 & 0 & -2 \\ 1 & 1 & -1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 2 & 2 & -2 & -1 & 0 & 2 & -1 & -1 \\ 2 & 3 & -2 & -2 & 0 & 3 & -1 & -1 \\ 4 & 4 & -3 & -3 & 0 & 4 & -1 & -2 \\ 3 & 3 & -2 & -3 & 1 & 3 & -1 & -2 \\ 2 & 2 & -1 & -2 & 0 & 3 & -1 & -2 \\ 2 & 1 & -1 & -1 & 0 & 2 & -1 & -1 \\ 1 & 1 & 0 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 2 & -1 & 0 \\ 2 & 2 & -2 & -1 & 0 & 2 & -1 & -1 \\ 2 & 3 & -2 & -2 & 0 & 3 & -1 & -1 \\ 4 & 4 & -3 & -3 & 0 & 4 & -1 & -2 \\ 3 & 3 & -2 & -2 & -1 & 4 & -1 & -2 \\ 2 & 2 & -1 & -2 & 0 & 3 & -1 & -2 \\ 2 & 1 & -1 & -1 & 0 & 2 & -1 & -1 \\ 1 & 1 & 0 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 1 & 1 \\ 1 & 2 & 0 & -1 & 0 & -1 & 1 & 1 \\ 1 & 2 & 0 & -1 & 0 & -2 & 2 & 2 \\ 2 & 4 & 0 & -2 & 0 & -3 & 3 & 2 \\ 2 & 3 & 0 & -2 & 1 & -3 & 2 & 2 \\ 2 & 2 & 0 & -1 & 0 & -2 & 1 & 2 \\ 1 & 1 & 0 & 0 & 0 & -2 & 1 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 1 & 1 \\ 1 & 2 & 0 & -1 & 0 & -1 & 1 & 1 \\ 1 & 2 & 0 & -1 & 0 & -2 & 2 & 2 \\ 2 & 4 & 0 & -2 & 0 & -3 & 3 & 2 \\ 2 & 3 & 0 & -1 & -1 & -2 & 2 & 2 \\ 2 & 2 & 0 & -1 & 0 & -2 & 1 & 2 \\ 1 & 1 & 0 & 0 & 0 & -2 & 1 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 2 & -1 \\ 1 & 1 & -1 & 0 & 0 & -1 & 2 & 0 \\ 1 & 1 & -1 & 0 & 0 & -2 & 4 & -1 \\ 1 & 2 & -2 & 0 & 0 & -2 & 5 & -1 \\ 1 & 1 & -2 & 0 & 1 & -2 & 4 & -1 \\ 1 & 0 & -2 & 1 & 0 & -1 & 3 & -1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 2 & -1 \\ 1 & 1 & -1 & 0 & 0 & -1 & 2 & 0 \\ 1 & 1 & -1 & 0 & 0 & -2 & 4 & -1 \\ 1 & 2 & -2 & 0 & 0 & -2 & 5 & -1 \\ 1 & 1 & -2 & 1 & -1 & -1 & 4 & -1 \\ 1 & 0 & -2 & 1 & 0 & -1 & 3 & -1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & 0 & 0 & 1 & -2 & 0 \\ 2 & 1 & -3 & 1 & 0 & 1 & -2 & 0 \\ 2 & 2 & -3 & 1 & 0 & 1 & -3 & 0 \\ 3 & 2 & -5 & 2 & 0 & 2 & -5 & 1 \\ 2 & 2 & -4 & 1 & 1 & 1 & -4 & 1 \\ 1 & 2 & -3 & 1 & 0 & 1 & -3 & 1 \\ 1 & 2 & -2 & 0 & 0 & 1 & -2 & 1 \\ 0 & 1 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & 1 & -2 & 0 \\ 2 & 1 & -3 & 1 & 0 & 1 & -2 & 0 \\ 2 & 2 & -3 & 1 & 0 & 1 & -3 & 0 \\ 3 & 2 & -5 & 2 & 0 & 2 & -5 & 1 \\ 2 & 2 & -4 & 2 & -1 & 2 & -4 & 1 \\ 1 & 2 & -3 & 1 & 0 & 1 & -3 & 1 \\ 1 & 2 & -2 & 0 & 0 & 1 & -2 & 1 \\ 0 & 1 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 0 & 0 & 1 & 0 \\ 0 & 2 & 0 & -1 & 0 & 0 & 1 & 0 \\ 0 & 2 & 1 & -2 & 0 & 0 & 2 & 0 \\ 0 & 3 & 0 & -2 & 0 & 0 & 3 & 0 \\ 0 & 2 & 0 & -2 & 1 & 0 & 2 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & -1 & 0 & 0 & 1 & 0 \\ 0 & 2 & 0 & -1 & 0 & 0 & 1 & 0 \\ 0 & 2 & 1 & -2 & 0 & 0 & 2 & 0 \\ 0 & 3 & 0 & -2 & 0 & 0 & 3 & 0 \\ 0 & 2 & 0 & -1 & -1 & 1 & 2 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 2 & -1 & -1 & 0 & 1 & -1 & 0 \\ 2 & 2 & -3 & 0 & 0 & 1 & -1 & 0 \\ 2 & 4 & -3 & -1 & 0 & 1 & -1 & 0 \\ 3 & 5 & -5 & -1 & 0 & 2 & -2 & 1 \\ 2 & 4 & -4 & -1 & 1 & 1 & -2 & 1 \\ 1 & 3 & -3 & 0 & 0 & 1 & -2 & 1 \\ 1 & 2 & -2 & 0 & 0 & 1 & -2 & 1 \\ 0 & 1 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 2 & -1 & -1 & 0 & 1 & -1 & 0 \\ 2 & 2 & -3 & 0 & 0 & 1 & -1 & 0 \\ 2 & 4 & -3 & -1 & 0 & 1 & -1 & 0 \\ 3 & 5 & -5 & -1 & 0 & 2 & -2 & 1 \\ 2 & 4 & -4 & 0 & -1 & 2 & -2 & 1 \\ 1 & 3 & -3 & 0 & 0 & 1 & -2 & 1 \\ 1 & 2 & -2 & 0 & 0 & 1 & -2 & 1 \\ 0 & 1 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 2 & -1 & -2 & 1 & 0 & 1 & -1 & 0 \\ 3 & 0 & -2 & 0 & 0 & 2 & -2 & 0 \\ 4 & -1 & -3 & 1 & 0 & 2 & -2 & 0 \\ 6 & -1 & -4 & 1 & 0 & 3 & -3 & -1 \\ 5 & -1 & -3 & 0 & 1 & 2 & -2 & -1 \\ 4 & -1 & -2 & 0 & 0 & 2 & -1 & -1 \\ 3 & 0 & -2 & 0 & 0 & 1 & 0 & -1 \\ 2 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -2 & 1 & 0 & 1 & -1 & 0 \\ 3 & 0 & -2 & 0 & 0 & 2 & -2 & 0 \\ 4 & -1 & -3 & 1 & 0 & 2 & -2 & 0 \\ 6 & -1 & -4 & 1 & 0 & 3 & -3 & -1 \\ 5 & -1 & -3 & 1 & -1 & 3 & -2 & -1 \\ 4 & -1 & -2 & 0 & 0 & 2 & -1 & -1 \\ 3 & 0 & -2 & 0 & 0 & 1 & 0 & -1 \\ 2 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -2 & 0 & 0 & 1 & 0 & 0 \\ 3 & 1 & -2 & -1 & 0 & 2 & -1 & 0 \\ 4 & 1 & -3 & -1 & 0 & 2 & 0 & 0 \\ 6 & 2 & -4 & -2 & 0 & 3 & 0 & -1 \\ 5 & 1 & -3 & -2 & 1 & 2 & 0 & -1 \\ 4 & 0 & -2 & -1 & 0 & 2 & 0 & -1 \\ 3 & 0 & -2 & 0 & 0 & 1 & 0 & -1 \\ 2 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 2 & 0 & -2 & 0 & 0 & 1 & 0 & 0 \\ 3 & 1 & -2 & -1 & 0 & 2 & -1 & 0 \\ 4 & 1 & -3 & -1 & 0 & 2 & 0 & 0 \\ 6 & 2 & -4 & -2 & 0 & 3 & 0 & -1 \\ 5 & 1 & -3 & -1 & -1 & 3 & 0 & -1 \\ 4 & 0 & -2 & -1 & 0 & 2 & 0 & -1 \\ 3 & 0 & -2 & 0 & 0 & 1 & 0 & -1 \\ 2 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -2 & 1 & 0 & 0 & -1 & 0 \\ 3 & 0 & -3 & 1 & 0 & 1 & -2 & 1 \\ 4 & 0 & -4 & 2 & 0 & 0 & -2 & 1 \\ 5 & 0 & -6 & 3 & 0 & 1 & -4 & 2 \\ 4 & 0 & -5 & 2 & 1 & 0 & -3 & 2 \\ 3 & 0 & -4 & 2 & 0 & 0 & -2 & 2 \\ 2 & 1 & -3 & 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & -2 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -2 & 1 & 0 & 0 & -1 & 0 \\ 3 & 0 & -3 & 1 & 0 & 1 & -2 & 1 \\ 4 & 0 & -4 & 2 & 0 & 0 & -2 & 1 \\ 5 & 0 & -6 & 3 & 0 & 1 & -4 & 2 \\ 4 & 0 & -5 & 3 & -1 & 1 & -3 & 2 \\ 3 & 0 & -4 & 2 & 0 & 0 & -2 & 2 \\ 2 & 1 & -3 & 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & -2 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 2 & 0 & -1 & 0 & 0 & 1 & -2 & 1 \\ 2 & 1 & -2 & 0 & 0 & 2 & -3 & 1 \\ 3 & 1 & -2 & 0 & 0 & 2 & -4 & 2 \\ 4 & 1 & -4 & 1 & 0 & 3 & -6 & 3 \\ 3 & 1 & -3 & 0 & 1 & 2 & -5 & 3 \\ 2 & 1 & -2 & 0 & 0 & 2 & -4 & 3 \\ 2 & 1 & -2 & 0 & 0 & 1 & -2 & 2 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 0 & 0 & 1 & -2 & 1 \\ 2 & 1 & -2 & 0 & 0 & 2 & -3 & 1 \\ 3 & 1 & -2 & 0 & 0 & 2 & -4 & 2 \\ 4 & 1 & -4 & 1 & 0 & 3 & -6 & 3 \\ 3 & 1 & -3 & 1 & -1 & 3 & -5 & 3 \\ 2 & 1 & -2 & 0 & 0 & 2 & -4 & 3 \\ 2 & 1 & -2 & 0 & 0 & 1 & -2 & 2 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 2 & 1 & -2 & 0 & 0 & 0 & 0 & 0 \\ 3 & 1 & -3 & 0 & 0 & 1 & -1 & 1 \\ 4 & 2 & -4 & 0 & 0 & 0 & 0 & 1 \\ 5 & 3 & -6 & 0 & 0 & 1 & -1 & 2 \\ 4 & 2 & -5 & 0 & 1 & 0 & -1 & 2 \\ 3 & 1 & -4 & 1 & 0 & 0 & -1 & 2 \\ 2 & 1 & -3 & 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & -2 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 2 & 1 & -2 & 0 & 0 & 0 & 0 & 0 \\ 3 & 1 & -3 & 0 & 0 & 1 & -1 & 1 \\ 4 & 2 & -4 & 0 & 0 & 0 & 0 & 1 \\ 5 & 3 & -6 & 0 & 0 & 1 & -1 & 2 \\ 4 & 2 & -5 & 1 & -1 & 1 & -1 & 2 \\ 3 & 1 & -4 & 1 & 0 & 0 & -1 & 2 \\ 2 & 1 & -3 & 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & -2 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 1 & -1 & -1 & 0 & 1 & -1 & 1 \\ 2 & 2 & -2 & -1 & 0 & 2 & -2 & 1 \\ 3 & 3 & -2 & -2 & 0 & 2 & -2 & 2 \\ 4 & 4 & -4 & -2 & 0 & 3 & -3 & 3 \\ 3 & 3 & -3 & -2 & 1 & 2 & -3 & 3 \\ 2 & 2 & -2 & -1 & 0 & 2 & -3 & 3 \\ 2 & 1 & -2 & 0 & 0 & 1 & -2 & 2 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 2 & 1 & -1 & -1 & 0 & 1 & -1 & 1 \\ 2 & 2 & -2 & -1 & 0 & 2 & -2 & 1 \\ 3 & 3 & -2 & -2 & 0 & 2 & -2 & 2 \\ 4 & 4 & -4 & -2 & 0 & 3 & -3 & 3 \\ 3 & 3 & -3 & -1 & -1 & 3 & -3 & 3 \\ 2 & 2 & -2 & -1 & 0 & 2 & -3 & 3 \\ 2 & 1 & -2 & 0 & 0 & 1 & -2 & 2 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}.$$

The character table of $G^{s_{101}}$:

										10										20				
$\chi_{101}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{101}^{(2)}$	1	1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	-1	1
$\chi_{101}^{(3)}$	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1
$\chi_{101}^{(4)}$	1	1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1
$\chi_{101}^{(5)}$	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1
$\chi_{101}^{(6)}$	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1
$\chi_{101}^{(7)}$	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{101}^{(8)}$	1	1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1
$\chi_{101}^{(9)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{101}^{(10)}$	1	-1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	1	1	1	1	-1	-1
$\chi_{101}^{(11)}$	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	-1
$\chi_{101}^{(12)}$	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1
$\chi_{101}^{(13)}$	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	1	1	1	1
$\chi_{101}^{(14)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1
$\chi_{101}^{(15)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
$\chi_{101}^{(16)}$	1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{101}^{(17)}$	1	A	-A	A	A	-A	A	-A	A	-A	-A	A	-A	A	1	-1	A	-A	1	-1	-1	1	A	-A
$\chi_{101}^{(18)}$	1	-A	A	-A	-A	A	-A	A	-A	A	A	-A	A	-A	1	-1	-A	A	1	-1	-1	1	-A	A
$\chi_{101}^{(19)}$	1	-A	A	-A	-A	A	-A	A	A	-A	-A	A	A	-A	-1	1	-A	A	-1	1	-1	1	A	-A
$\chi_{101}^{(20)}$	1	A	-A	A	A	-A	A	-A	-A	A	A	-A	-A	A	-1	1	A	-A	-1	1	-1	1	-A	A
$\chi_{101}^{(21)}$	1	A	-A	A	-A	A	-A	A	A	-A	A	-A	-A	A	1	-1	-A	A	1	-1	-1	1	A	-A
$\chi_{101}^{(22)}$	1	-A	A	-A	A	-A	A	-A	-A	A	-A	A	A	-A	1	-1	A	-A	1	-1	-1	1	-A	A
$\chi_{101}^{(23)}$	1	-A	A	-A	A	-A	A	-A	A	-A	A	-A	A	-A	-1	1	A	-A	-1	1	-1	1	A	-A
$\chi_{101}^{(24)}$	1	A	-A	A	-A	A	-A	A	-A	A	-A	A	-A	A	-1	1	-A	A	-1	1	-1	1	-A	A
$\chi_{101}^{(25)}$	1	1	B	-B	1	-1	-B	B	/B	-/B	-/B	/B	/B	-/B	1	-1	-/B	/B	-B	B	-/B	/B	B	-B
$\chi_{101}^{(26)}$	1	1	/B	-/B	1	-1	-/B	/B	B	-B	-B	B	B	-B	1	-1	-B	B	-/B	/B	-B	B	/B	-/B
$\chi_{101}^{(27)}$	1	-1	-B	B	-1	1	B	-B	/B	-/B	-/B	/B	-/B	/B	-1	1	/B	-/B	B	-B	-/B	/B	B	-B
$\chi_{101}^{(28)}$	1	-1	-/B	/B	-1	1	/B	-/B	B	-B	-B	B	-B	B	-1	1	B	-B	/B	-/B	-B	B	/B	-/B
$\chi_{101}^{(29)}$	1	1	B	-B	1	-1	-B	B	-/B	/B	/B	-/B	/B	-/B	-1	1	-/B	/B	B	-B	-/B	/B	-B	B
$\chi_{101}^{(30)}$	1	1	/B	-/B	1	-1	-/B	/B	-B	B	B	-B	B	-B	-1	1	-B	B	/B	-/B	-B	B	-/B	/B
$\chi_{101}^{(31)}$	1	-1	-B	B	-1	1	B	-B	-/B	/B	/B	-/B	-/B	/B	1	-1	/B	-/B	-B	B	-/B	/B	-B	B
$\chi_{101}^{(32)}$	1	-1	-/B	/B	-1	1	/B	-/B	-B	B	B	-B	-B	B	1	-1	B	-B	-/B	/B	-B	B	-/B	/B
$\chi_{101}^{(33)}$	1	A	C	-C	A	-A	-C	C	/C	-/C	-/C	/C	-/C	/C	1	-1	/C	-/C	-B	B	/B	-/B	-C	C
$\chi_{101}^{(34)}$	1	-A	-C	C	-A	A	C	-C	-/C	/C	/C	-/C	/C	-/C	1	-1	-/C	/C	-B	B	/B	-/B	C	-C
$\chi_{101}^{(35)}$	1	A	-/C	/C	A	-A	/C	-/C	-C	C	C	-C	C	-C	1	-1	-C	C	-/B	/B	B	-B	/C	-/C
$\chi_{101}^{(36)}$	1	-A	/C	-/C	-A	A	-/C	/C	C	-C	-C	C	-C	C	1	-1	C	-C	-/B	/B	B	-B	-/C	/C
$\chi_{101}^{(37)}$	1	-A	-C	C	-A	A	C	-C	/C	-/C	-/C	/C	/C	-/C	-1	1	-/C	/C	B	-B	/B	-/B	-C	C
$\chi_{101}^{(38)}$	1	A	C	-C	A	-A	-C	C	-/C	/C	/C	-/C	-/C	/C	-1	1	/C	-/C	B	-B	/B	-/B	C	-C
$\chi_{101}^{(39)}$	1	-A	/C	-/C	-A	A	-/C	/C	-C	C	C	-C	-C	C	-1	1	C	-C	/B	-/B	B	-B	/C	-/C
$\chi_{101}^{(40)}$	1	A	-/C	/C	A	-A	/C	-/C	C	-C	-C	C	C	-C	-1	1	-C	C	/B	-/B	B	-B	-/C	/C
$\chi_{101}^{(41)}$	1	1	B	-B	-1	1	B	-B	/B	-/B	/B	-/B	/B	-/B	1	-1	/B	-/B	-B	B	-/B	/B	B	-B
$\chi_{101}^{(42)}$	1	1	/B	-/B	-1	1	/B	-/B	B	-B	B	-B	B	-B	1	-1	B	-B	-/B	/B	-B	B	/B	-/B
$\chi_{101}^{(43)}$	1	-1	-B	B	1	-1	-B	B	/B	-/B	/B	-/B	-/B	/B	-1	1	-/B	/B	B	-B	-/B	/B	B	-B
$\chi_{101}^{(44)}$	1	-1	-/B	/B	1	-1	-/B	/B	B	-B	B	-B	-B	B	-1	1	-B	B	/B	-/B	-B	B	/B	-/B
$\chi_{101}^{(45)}$	1	1	B	-B	-1	1	B	-B	-/B	/B	-/B	/B	/B	-/B	-1	1	/B	-/B	B	-B	-/B	/B	-B	B

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$\chi_{101}^{(46)}$	1	1	/B	-/B	-1	1	/B	-/B	-B	B	-B	B	B	-B	-1	1	B	-B	/B	-/B	-B	B	-/B	/B
$\chi_{101}^{(47)}$	1	-1	-B	B	1	-1	-B	B	-/B	/B	-/B	/B	-/B	/B	1	-1	-/B	/B	-B	B	-/B	/B	-B	B
$\chi_{101}^{(48)}$	1	-1	-/B	/B	1	-1	-/B	/B	-B	B	-B	B	-B	B	1	-1	-B	B	-/B	/B	-B	B	-/B	/B
$\chi_{101}^{(49)}$	1	A	C	-C	-A	A	C	-C	/C	-/C	/C	-/C	-/C	/C	1	-1	-/C	/C	-B	B	/B	-/B	-C	C
$\chi_{101}^{(50)}$	1	-A	-C	C	A	-A	-C	C	-/C	/C	-/C	/C	/C	-/C	1	-1	/C	-/C	-B	B	/B	-/B	C	-C
$\chi_{101}^{(51)}$	1	A	-/C	/C	-A	A	-/C	/C	-C	C	-C	C	C	-C	1	-1	C	-C	-/B	/B	B	-B	/C	-/C
$\chi_{101}^{(52)}$	1	-A	/C	-/C	A	-A	/C	-/C	C	-C	C	-C	-C	C	1	-1	-C	C	-/B	/B	B	-B	-/C	/C
$\chi_{101}^{(53)}$	1	-A	-C	C	A	-A	-C	C	/C	-/C	/C	-/C	/C	-/C	-1	1	/C	-/C	B	-B	/B	-/B	-C	C
$\chi_{101}^{(54)}$	1	A	C	-C	-A	A	C	-C	-/C	/C	-/C	/C	-/C	/C	-1	1	-/C	/C	B	-B	/B	-/B	C	-C
$\chi_{101}^{(55)}$	1	-A	/C	-/C	A	-A	/C	-/C	-C	C	-C	C	-C	C	-1	1	-C	C	/B	-/B	B	-B	/C	-/C
$\chi_{101}^{(56)}$	1	A	-/C	/C	-A	A	-/C	/C	C	-C	C	-C	C	-C	-1	1	C	-C	/B	-/B	B	-B	-/C	/C
$\chi_{101}^{(57)}$	1	-A	-A	-A	A	A	A	A	A	A	-A	-A	-A	-A	1	1	A	A	1	1	-1	-1	A	A
$\chi_{101}^{(58)}$	1	A	A	A	-A	-A	-A	-A	-A	-A	A	A	A	A	1	1	-A	-A	1	1	-1	-1	-A	-A
$\chi_{101}^{(59)}$	1	A	A	A	-A	-A	-A	-A	A	A	-A	-A	A	A	-1	-1	-A	-A	-1	-1	-1	-1	A	A
$\chi_{101}^{(60)}$	1	-A	-A	-A	A	A	A	A	-A	-A	A	A	-A	-A	-1	-1	A	A	-1	-1	-1	-1	-A	-A
$\chi_{101}^{(61)}$	1	-A	-A	-A	-A	-A	-A	-A	A	A	A	A	-A	-A	1	1	-A	-A	1	1	-1	-1	A	A
$\chi_{101}^{(62)}$	1	A	A	A	A	A	A	A	-A	-A	-A	-A	A	A	1	1	A	A	1	1	-1	-1	-A	-A
$\chi_{101}^{(63)}$	1	A	A	A	A	A	A	A	A	A	A	A	A	A	-1	-1	A	A	-1	-1	-1	-1	A	A
$\chi_{101}^{(64)}$	1	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-1	-1	-A	-A	-1	-1	-1	-1	-A	-A
$\chi_{101}^{(65)}$	1	-1	B	B	1	1	-B	-B	/B	/B	-/B	-/B	/B	/B	1	1	-/B	-/B	-B	-B	-/B	-/B	B	B
$\chi_{101}^{(66)}$	1	-1	/B	/B	1	1	-/B	-/B	B	B	-B	-B	B	B	1	1	-B	-B	-/B	-/B	-B	-B	/B	/B
$\chi_{101}^{(67)}$	1	1	-B	-B	-1	-1	B	B	/B	/B	-/B	-/B	-/B	-/B	-1	-1	/B	/B	B	B	-/B	-/B	B	B
$\chi_{101}^{(68)}$	1	1	-/B	-/B	-1	-1	/B	/B	B	B	-B	-B	-B	-B	-1	-1	B	B	/B	/B	-B	-B	/B	/B
$\chi_{101}^{(69)}$	1	-1	B	B	1	1	-B	-B	-/B	-/B	/B	/B	/B	/B	-1	-1	-/B	-/B	B	B	-/B	-/B	-B	-B
$\chi_{101}^{(70)}$	1	-1	/B	/B	1	1	-/B	-/B	-B	-B	B	B	B	B	-1	-1	-B	-B	/B	/B	-B	-B	-/B	-/B
$\chi_{101}^{(71)}$	1	1	-B	-B	-1	-1	B	B	-/B	-/B	/B	/B	-/B	-/B	1	1	/B	/B	-B	-B	-/B	-/B	-B	-B
$\chi_{101}^{(72)}$	1	1	-/B	-/B	-1	-1	/B	/B	-B	-B	B	B	-B	-B	1	1	B	B	-/B	-/B	-B	-B	-/B	-/B
$\chi_{101}^{(73)}$	1	-A	C	C	A	A	-C	-C	/C	/C	-/C	-/C	-/C	-/C	1	1	/C	/C	-B	-B	/B	/B	-C	-C
$\chi_{101}^{(74)}$	1	A	-C	-C	-A	-A	C	C	-/C	-/C	/C	/C	/C	/C	1	1	-/C	-/C	-B	-B	/B	/B	C	C
$\chi_{101}^{(75)}$	1	-A	-/C	-/C	A	A	/C	/C	-C	-C	C	C	C	C	1	1	-C	-C	-/B	-/B	B	B	/C	/C
$\chi_{101}^{(76)}$	1	A	/C	/C	-A	-A	-/C	-/C	C	C	-C	-C	-C	-C	1	1	C	C	-/B	-/B	B	B	-/C	-/C
$\chi_{101}^{(77)}$	1	A	-C	-C	-A	-A	C	C	/C	/C	-/C	-/C	/C	/C	-1	-1	-/C	-/C	B	B	/B	/B	-C	-C
$\chi_{101}^{(78)}$	1	-A	C	C	A	A	-C	-C	-/C	-/C	/C	/C	-/C	-/C	-1	-1	/C	/C	B	B	/B	/B	C	C
$\chi_{101}^{(79)}$	1	A	/C	/C	-A	-A	-/C	-/C	-C	-C	C	C	-C	-C	-1	-1	C	C	/B	/B	B	B	/C	/C
$\chi_{101}^{(80)}$	1	-A	-/C	-/C	A	A	/C	/C	C	C	-C	-C	C	C	-1	-1	-C	-C	/B	/B	B	B	-/C	-/C
$\chi_{101}^{(81)}$	1	-1	B	B	-1	-1	B	B	/B	/B	/B	/B	/B	/B	1	1	/B	/B	-B	-B	-/B	-/B	B	B
$\chi_{101}^{(82)}$	1	-1	/B	/B	-1	-1	/B	/B	B	B	B	B	B	B	1	1	B	B	-/B	-/B	-B	-B	/B	/B
$\chi_{101}^{(83)}$	1	1	-B	-B	1	1	-B	-B	/B	/B	/B	/B	-/B	-/B	-1	-1	-/B	-/B	B	B	-/B	-/B	B	B
$\chi_{101}^{(84)}$	1	1	-/B	-/B	1	1	-/B	-/B	B	B	B	B	-B	-B	-1	-1	-B	-B	/B	/B	-B	-B	/B	/B
$\chi_{101}^{(85)}$	1	-1	B	B	-1	-1	B	B	-/B	-/B	-/B	-/B	/B	/B	-1	-1	/B	/B	B	B	-/B	-/B	-B	-B
$\chi_{101}^{(86)}$	1	-1	/B	/B	-1	-1	/B	/B	-B	-B	-B	-B	B	B	-1	-1	B	B	/B	/B	-B	-B	-/B	-/B
$\chi_{101}^{(87)}$	1	1	-B	-B	1	1	-B	-B	-/B	-/B	-/B	-/B	-/B	-/B	1	1	-/B	-/B	-B	-B	-/B	-/B	-B	-B
$\chi_{101}^{(88)}$	1	1	-/B	-/B	1	1	-/B	-/B	-B	-B	-B	-B	-B	-B	1	1	-B	-B	-/B	-/B	-B	-B	-/B	-/B
$\chi_{101}^{(89)}$	1	-A	C	C	-A	-A	C	C	/C	/C	/C	/C	-/C	-/C	1	1	-/C	-/C	-B	-B	/B	/B	-C	-C
$\chi_{101}^{(90)}$	1	A	-C	-C	A	A	-C	-C	-/C	-/C	-/C	-/C	/C	/C	1	1	/C	/C	-B	-B	/B	/B	C	C

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$\chi_{101}^{(91)}$	1	-A	-/C	-/C	-A	-A	-/C	-/C	-C	-C	-C	-C	C	C	1	1	C	C	-/B	-/B	B	B	/C	/C
$\chi_{101}^{(92)}$	1	A	/C	/C	A	A	/C	/C	C	C	C	C	-C	-C	1	1	-C	-C	-/B	-/B	B	B	-/C	-/C
$\chi_{101}^{(93)}$	1	A	-C	-C	A	A	-C	-C	/C	/C	/C	/C	/C	/C	-1	-1	/C	/C	B	B	/B	/B	-C	-C
$\chi_{101}^{(94)}$	1	-A	C	C	-A	-A	C	C	-/C	-/C	-/C	-/C	-/C	-/C	-1	-1	-/C	-/C	B	B	/B	/B	C	C
$\chi_{101}^{(95)}$	1	A	/C	/C	A	A	/C	/C	-C	-C	-C	-C	-C	-C	-1	-1	-C	-C	/B	/B	B	B	/C	/C
$\chi_{101}^{(96)}$	1	-A	-/C	-/C	-A	-A	-/C	-/C	C	C	C	C	C	C	-1	-1	C	C	/B	/B	B	B	-/C	-/C

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$\chi_{101}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{101}^{(2)}$	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1
$\chi_{101}^{(3)}$	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1
$\chi_{101}^{(4)}$	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1
$\chi_{101}^{(5)}$	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1
$\chi_{101}^{(6)}$	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{101}^{(7)}$	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1
$\chi_{101}^{(8)}$	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1
$\chi_{101}^{(9)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{101}^{(10)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{101}^{(11)}$	-1	-1	1	1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1
$\chi_{101}^{(12)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1
$\chi_{101}^{(13)}$	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{101}^{(14)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{101}^{(15)}$	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	1	1	1	-1
$\chi_{101}^{(16)}$	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	1	1	-1
$\chi_{101}^{(17)}$	A	-A	-1	1	-1	1	1	-1	-A	A	-A	A	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	-1
$\chi_{101}^{(18)}$	-A	A	-1	1	-1	1	1	-1	A	-A	A	-A	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	-1
$\chi_{101}^{(19)}$	A	-A	1	-1	1	-1	1	-1	-A	A	-A	A	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1
$\chi_{101}^{(20)}$	-A	A	1	-1	1	-1	1	-1	A	-A	A	-A	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1
$\chi_{101}^{(21)}$	A	-A	1	-1	1	-1	-1	1	A	-A	A	-A	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1
$\chi_{101}^{(22)}$	-A	A	1	-1	1	-1	-1	1	-A	A	-A	A	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1
$\chi_{101}^{(23)}$	A	-A	-1	1	-1	1	-1	1	A	-A	A	-A	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	1
$\chi_{101}^{(24)}$	-A	A	-1	1	-1	1	-1	1	-A	A	-A	A	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	1
$\chi_{101}^{(25)}$	-1	1	-1	1	B	-B	/B	-/B	-B	B	1	-1	-/B	/B	-B	B	1	-1	/B	-/B	B	-B	-1	1	1
$\chi_{101}^{(26)}$	-1	1	-1	1	/B	-/B	B	-B	-/B	/B	1	-1	-B	B	-/B	/B	1	-1	B	-B	/B	-/B	-1	1	1
$\chi_{101}^{(27)}$	-1	1	1	-1	-B	B	/B	-/B	-B	B	1	-1	/B	-/B	-B	B	1	-1	-/B	/B	B	-B	-1	1	-1
$\chi_{101}^{(28)}$	-1	1	1	-1	-/B	/B	B	-B	-/B	/B	1	-1	B	-B	-/B	/B	1	-1	-B	B	/B	-/B	-1	1	-1
$\chi_{101}^{(29)}$	1	-1	1	-1	-B	B	/B	-/B	B	-B	-1	1	/B	-/B	-B	B	1	-1	-/B	/B	B	-B	-1	1	-1
$\chi_{101}^{(30)}$	1	-1	1	-1	-/B	/B	B	-B	/B	-/B	-1	1	B	-B	-/B	/B	1	-1	-B	B	/B	-/B	-1	1	-1
$\chi_{101}^{(31)}$	1	-1	-1	1	B	-B	/B	-/B	B	-B	-1	1	-/B	/B	-B	B	1	-1	/B	-/B	B	-B	-1	1	1
$\chi_{101}^{(32)}$	1	-1	-1	1	/B	-/B	B	-B	/B	-/B	-1	1	-B	B	-/B	/B	1	-1	B	-B	/B	-/B	-1	1	1
$\chi_{101}^{(33)}$	A	-A	-1	1	B	-B	-/B	/B	C	-C	-A	A	-/B	/B	B	-B	-1	1	/B	-/B	-B	B	1	-1	-1
$\chi_{101}^{(34)}$	-A	A	-1	1	B	-B	-/B	/B	-C	C	A	-A	-/B	/B	B	-B	-1	1	/B	-/B	-B	B	1	-1	-1
$\chi_{101}^{(35)}$	A	-A	-1	1	/B	-/B	-B	B	-/C	/C	-A	A	-B	B	/B	-/B	-1	1	B	-B	-/B	/B	1	-1	-1

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$\chi_{101}^{(36)}$	-A	A	-1	1	/B	-/B	-B	B	/C	-/C	A	-A	-B	B	/B	-/B	-1	1	B	-B	-/B	/B	1	-1	-1
$\chi_{101}^{(37)}$	A	-A	1	-1	-B	B	-/B	/B	C	-C	-A	A	/B	-/B	B	-B	-1	1	-/B	/B	-B	B	1	-1	1
$\chi_{101}^{(38)}$	-A	A	1	-1	-B	B	-/B	/B	-C	C	A	-A	/B	-/B	B	-B	-1	1	-/B	/B	-B	B	1	-1	1
$\chi_{101}^{(39)}$	A	-A	1	-1	-/B	/B	-B	B	-/C	/C	-A	A	B	-B	/B	-/B	-1	1	-B	B	-/B	/B	1	-1	1
$\chi_{101}^{(40)}$	-A	A	1	-1	-/B	/B	-B	B	/C	-/C	A	-A	B	-B	/B	-/B	-1	1	-B	B	-/B	/B	1	-1	1
$\chi_{101}^{(41)}$	-1	1	1	-1	-B	B	-/B	/B	B	-B	-1	1	-/B	/B	-B	B	1	-1	-/B	/B	-B	B	1	-1	1
$\chi_{101}^{(42)}$	-1	1	1	-1	-/B	/B	-B	B	/B	-/B	-1	1	-B	B	-/B	/B	1	-1	-B	B	-/B	/B	1	-1	1
$\chi_{101}^{(43)}$	-1	1	-1	1	B	-B	-/B	/B	B	-B	-1	1	/B	-/B	-B	B	1	-1	/B	-/B	-B	B	1	-1	-1
$\chi_{101}^{(44)}$	-1	1	-1	1	/B	-/B	-B	B	/B	-/B	-1	1	B	-B	-/B	/B	1	-1	B	-B	-/B	/B	1	-1	-1
$\chi_{101}^{(45)}$	1	-1	-1	1	B	-B	-/B	/B	-B	B	1	-1	/B	-/B	-B	B	1	-1	/B	-/B	-B	B	1	-1	-1
$\chi_{101}^{(46)}$	1	-1	-1	1	/B	-/B	-B	B	-/B	/B	1	-1	B	-B	-/B	/B	1	-1	B	-B	-/B	/B	1	-1	-1
$\chi_{101}^{(47)}$	1	-1	1	-1	-B	B	-/B	/B	-B	B	1	-1	-/B	/B	-B	B	1	-1	-/B	/B	-B	B	1	-1	1
$\chi_{101}^{(48)}$	1	-1	1	-1	-/B	/B	-B	B	-/B	/B	1	-1	-B	B	-/B	/B	1	-1	-B	B	-/B	/B	1	-1	1
$\chi_{101}^{(49)}$	A	-A	1	-1	-B	B	/B	-/B	-C	C	A	-A	-/B	/B	B	-B	-1	1	-/B	/B	B	-B	-1	1	-1
$\chi_{101}^{(50)}$	-A	A	1	-1	-B	B	/B	-/B	C	-C	-A	A	-/B	/B	B	-B	-1	1	-/B	/B	B	-B	-1	1	-1
$\chi_{101}^{(51)}$	A	-A	1	-1	-/B	/B	B	-B	/C	-/C	A	-A	-B	B	/B	-/B	-1	1	-B	B	/B	-/B	-1	1	-1
$\chi_{101}^{(52)}$	-A	A	1	-1	-/B	/B	B	-B	-/C	/C	-A	A	-B	B	/B	-/B	-1	1	-B	B	/B	-/B	-1	1	-1
$\chi_{101}^{(53)}$	A	-A	-1	1	B	-B	/B	-/B	-C	C	A	-A	/B	-/B	B	-B	-1	1	/B	-/B	B	-B	-1	1	1
$\chi_{101}^{(54)}$	-A	A	-1	1	B	-B	/B	-/B	C	-C	-A	A	/B	-/B	B	-B	-1	1	/B	-/B	B	-B	-1	1	1
$\chi_{101}^{(55)}$	A	-A	-1	1	/B	-/B	B	-B	/C	-/C	A	-A	B	-B	/B	-/B	-1	1	B	-B	/B	-/B	-1	1	1
$\chi_{101}^{(56)}$	-A	A	-1	1	/B	-/B	B	-B	-/C	/C	-A	A	B	-B	/B	-/B	-1	1	B	-B	/B	-/B	-1	1	1
$\chi_{101}^{(57)}$	A	A	-1	-1	-1	-1	1	1	-A	-A	-A	-A	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1
$\chi_{101}^{(58)}$	-A	-A	-1	-1	-1	-1	1	1	A	A	A	A	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1
$\chi_{101}^{(59)}$	A	A	1	1	1	1	1	1	-A	-A	-A	-A	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{101}^{(60)}$	-A	-A	1	1	1	1	1	1	A	A	A	A	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{101}^{(61)}$	A	A	1	1	1	1	-1	-1	A	A	A	A	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1
$\chi_{101}^{(62)}$	-A	-A	1	1	1	1	-1	-1	-A	-A	-A	-A	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1
$\chi_{101}^{(63)}$	A	A	-1	-1	-1	-1	-1	-1	A	A	A	A	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{101}^{(64)}$	-A	-A	-1	-1	-1	-1	-1	-1	-A	-A	-A	-A	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{101}^{(65)}$	-1	-1	-1	-1	B	B	/B	/B	-B	-B	1	1	-/B	-/B	-B	-B	1	1	/B	/B	B	B	-1	-1	1
$\chi_{101}^{(66)}$	-1	-1	-1	-1	/B	/B	B	B	-/B	-/B	1	1	-B	-B	-/B	-/B	1	1	B	B	/B	/B	-1	-1	1
$\chi_{101}^{(67)}$	-1	-1	1	1	-B	-B	/B	/B	-B	-B	1	1	/B	/B	-B	-B	1	1	-/B	-/B	B	B	-1	-1	-1
$\chi_{101}^{(68)}$	-1	-1	1	1	-/B	-/B	B	B	-/B	-/B	1	1	B	B	-/B	-/B	1	1	-B	-B	/B	/B	-1	-1	-1
$\chi_{101}^{(69)}$	1	1	1	1	-B	-B	/B	/B	B	B	-1	-1	/B	/B	-B	-B	1	1	-/B	-/B	B	B	-1	-1	-1
$\chi_{101}^{(70)}$	1	1	1	1	-/B	-/B	B	B	/B	/B	-1	-1	B	B	-/B	-/B	1	1	-B	-B	/B	/B	-1	-1	-1
$\chi_{101}^{(71)}$	1	1	-1	-1	B	B	/B	/B	B	B	-1	-1	-/B	-/B	-B	-B	1	1	/B	/B	B	B	-1	-1	1
$\chi_{101}^{(72)}$	1	1	-1	-1	/B	/B	B	B	/B	/B	-1	-1	-B	-B	-/B	-/B	1	1	B	B	/B	/B	-1	-1	1
$\chi_{101}^{(73)}$	A	A	-1	-1	B	B	-/B	-/B	C	C	-A	-A	-/B	-/B	B	B	-1	-1	/B	/B	-B	-B	1	1	-1
$\chi_{101}^{(74)}$	-A	-A	-1	-1	B	B	-/B	-/B	-C	-C	A	A	-/B	-/B	B	B	-1	-1	/B	/B	-B	-B	1	1	-1
$\chi_{101}^{(75)}$	A	A	-1	-1	/B	/B	-B	-B	-/C	-/C	-A	-A	-B	-B	/B	/B	-1	-1	B	B	-/B	-/B	1	1	-1
$\chi_{101}^{(76)}$	-A	-A	-1	-1	/B	/B	-B	-B	/C	/C	A	A	-B	-B	/B	/B	-1	-1	B	B	-/B	-/B	1	1	-1
$\chi_{101}^{(77)}$	A	A	1	1	-B	-B	-/B	-/B	C	C	-A	-A	/B	/B	B	B	-1	-1	-/B	-/B	-B	-B	1	1	1
$\chi_{101}^{(78)}$	-A	-A	1	1	-B	-B	-/B	-/B	-C	-C	A	A	/B	/B	B	B	-1	-1	-/B	-/B	-B	-B	1	1	1
$\chi_{101}^{(79)}$	A	A	1	1	-/B	-/B	-B	-B	-/C	-/C	-A	-A	B	B	/B	/B	-1	-1	-B	-B	-/B	-/B	1	1	1
$\chi_{101}^{(80)}$	-A	-A	1	1	-/B	-/B	-B	-B	/C	/C	A	A	B	B	/B	/B	-1	-1	-B	-B	-/B	-/B	1	1	1

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$\chi_{101}^{(81)}$	-1	-1	1	1	-B	-B	-/B	-/B	B	B	-1	-1	-/B	-/B	-B	-B	1	1	-/B	-/B	-B	-B	1	1	1
$\chi_{101}^{(82)}$	-1	-1	1	1	-/B	-/B	-B	-B	/B	/B	-1	-1	-B	-B	-/B	-/B	1	1	-B	-B	-/B	-/B	1	1	1
$\chi_{101}^{(83)}$	-1	-1	-1	-1	B	B	-/B	-/B	B	B	-1	-1	/B	/B	-B	-B	1	1	/B	/B	-B	-B	1	1	-1
$\chi_{101}^{(84)}$	-1	-1	-1	-1	/B	/B	-B	-B	/B	/B	-1	-1	B	B	-/B	-/B	1	1	B	B	-/B	-/B	1	1	-1
$\chi_{101}^{(85)}$	1	1	-1	-1	B	B	-/B	-/B	-B	-B	1	1	/B	/B	-B	-B	1	1	/B	/B	-B	-B	1	1	-1
$\chi_{101}^{(86)}$	1	1	-1	-1	/B	/B	-B	-B	-/B	-/B	1	1	B	B	-/B	-/B	1	1	B	B	-/B	-/B	1	1	-1
$\chi_{101}^{(87)}$	1	1	1	1	-B	-B	-/B	-/B	-B	-B	1	1	-/B	-/B	-B	-B	1	1	-/B	-/B	-B	-B	1	1	1
$\chi_{101}^{(88)}$	1	1	1	1	-/B	-/B	-B	-B	-/B	-/B	1	1	-B	-B	-/B	-/B	1	1	-B	-B	-/B	-/B	1	1	1
$\chi_{101}^{(89)}$	A	A	1	1	-B	-B	/B	/B	-C	-C	A	A	-/B	-/B	B	B	-1	-1	-/B	-/B	B	B	-1	-1	-1
$\chi_{101}^{(90)}$	-A	-A	1	1	-B	-B	/B	/B	C	C	-A	-A	-/B	-/B	B	B	-1	-1	-/B	-/B	B	B	-1	-1	-1
$\chi_{101}^{(91)}$	A	A	1	1	-/B	-/B	B	B	/C	/C	A	A	-B	-B	/B	/B	-1	-1	-B	-B	/B	/B	-1	-1	-1
$\chi_{101}^{(92)}$	-A	-A	1	1	-/B	-/B	B	B	-/C	-/C	-A	-A	-B	-B	/B	/B	-1	-1	-B	-B	/B	/B	-1	-1	-1
$\chi_{101}^{(93)}$	A	A	-1	-1	B	B	/B	/B	-C	-C	A	A	/B	/B	B	B	-1	-1	/B	/B	B	B	-1	-1	1
$\chi_{101}^{(94)}$	-A	-A	-1	-1	B	B	/B	/B	C	C	-A	-A	/B	/B	B	B	-1	-1	/B	/B	B	B	-1	-1	1
$\chi_{101}^{(95)}$	A	A	-1	-1	/B	/B	B	B	/C	/C	A	A	B	B	/B	/B	-1	-1	B	B	/B	/B	-1	-1	1
$\chi_{101}^{(96)}$	-A	-A	-1	-1	/B	/B	B	B	-/C	-/C	-A	-A	B	B	/B	/B	-1	-1	B	B	/B	/B	-1	-1	1

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$\chi_{101}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{101}^{(2)}$	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	-1	1	-1	1	-1
$\chi_{101}^{(3)}$	1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1
$\chi_{101}^{(4)}$	1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	-1	1	-1	1	-1
$\chi_{101}^{(5)}$	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1
$\chi_{101}^{(6)}$	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	-1	-1	-1	1	-1	1
$\chi_{101}^{(7)}$	1	-1	1	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1
$\chi_{101}^{(8)}$	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	-1	-1	1	-1	1
$\chi_{101}^{(9)}$	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{101}^{(10)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	1	1	1	1	1
$\chi_{101}^{(11)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1
$\chi_{101}^{(12)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	1	1	1	1	1
$\chi_{101}^{(13)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{101}^{(14)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	1	-1	-1	-1	-1
$\chi_{101}^{(15)}$	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	1	1	1	1	1	1	1	1
$\chi_{101}^{(16)}$	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	1	-1	-1	-1	-1
$\chi_{101}^{(17)}$	1	-1	1	1	-1	1	-1	1	-1	-1	1	A	-A	A	-A	-1	1	1	-1	-A	-1	-A	A	-A	A
$\chi_{101}^{(18)}$	1	-1	1	1	-1	1	-1	1	-1	-1	1	-A	A	-A	A	-1	1	1	-1	A	-1	A	-A	A	-A
$\chi_{101}^{(19)}$	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-A	A	-A	A	1	-1	1	-1	A	-1	A	-A	A	-A
$\chi_{101}^{(20)}$	-1	1	-1	1	-1	-1	1	-1	1	-1	1	A	-A	A	-A	1	-1	1	-1	-A	-1	-A	A	-A	A
$\chi_{101}^{(21)}$	1	-1	1	1	-1	-1	1	-1	1	1	-1	A	-A	A	-A	-1	1	1	-1	-A	-1	A	-A	A	-A
$\chi_{101}^{(22)}$	1	-1	1	1	-1	-1	1	-1	1	1	-1	-A	A	-A	A	-1	1	1	-1	A	-1	-A	A	-A	A
$\chi_{101}^{(23)}$	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-A	A	-A	A	1	-1	1	-1	A	-1	-A	A	-A	A
$\chi_{101}^{(24)}$	-1	1	-1	1	-1	1	-1	1	-1	1	-1	A	-A	A	-A	1	-1	1	-1	-A	-1	A	-A	A	-A
$\chi_{101}^{(25)}$	-1	-B	B	-/B	/B	-1	1	B	-B	/B	-/B	-1	1	B	-B	-/B	/B	-B	B	-1	-1	1	-1	-B	B
$\chi_{101}^{(26)}$	-1	-/B	/B	-B	B	-1	1	/B	-/B	B	-B	-1	1	/B	-/B	-B	B	-/B	/B	-1	-1	1	-1	-/B	/B
$\chi_{101}^{(27)}$	1	B	-B	-/B	/B	1	-1	-B	B	/B	-/B	1	-1	-B	B	/B	-/B	-B	B	1	-1	-1	1	B	-B
$\chi_{101}^{(28)}$	1	/B	-/B	-B	B	1	-1	-/B	/B	B	-B	1	-1	-/B	/B	B	-B	-/B	/B	1	-1	-1	1	/B	-/B
$\chi_{101}^{(29)}$	1	B	-B	-/B	/B	1	-1	-B	B	/B	-/B	-1	1	B	-B	/B	-/B	-B	B	-1	-1	1	-1	-B	B
$\chi_{101}^{(30)}$	1	/B	-/B	-B	B	1	-1	-/B	/B	B	-B	-1	1	/B	-/B	B	-B	-/B	/B	-1	-1	1	-1	-/B	/B

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$\chi_{101}^{(31)}$	-1	-B	B	-/B	/B	-1	1	B	-B	/B	-/B	1	-1	-B	B	-/B	/B	-B	B	1	-1	-1	1	B	-B
$\chi_{101}^{(32)}$	-1	-/B	/B	-B	B	-1	1	/B	-/B	B	-B	1	-1	-/B	/B	-B	B	-/B	/B	1	-1	-1	1	/B	-/B
$\chi_{101}^{(33)}$	1	B	-B	-/B	/B	1	-1	-B	B	/B	-/B	A	-A	-C	C	/B	-/B	-B	B	-A	-1	-A	A	C	-C
$\chi_{101}^{(34)}$	1	B	-B	-/B	/B	1	-1	-B	B	/B	-/B	-A	A	C	-C	/B	-/B	-B	B	A	-1	A	-A	-C	C
$\chi_{101}^{(35)}$	1	/B	-/B	-B	B	1	-1	-/B	/B	B	-B	A	-A	/C	-/C	B	-B	-/B	/B	-A	-1	-A	A	-/C	/C
$\chi_{101}^{(36)}$	1	/B	-/B	-B	B	1	-1	-/B	/B	B	-B	-A	A	-/C	/C	B	-B	-/B	/B	A	-1	A	-A	/C	-/C
$\chi_{101}^{(37)}$	-1	-B	B	-/B	/B	-1	1	B	-B	/B	-/B	-A	A	C	-C	-/B	/B	-B	B	A	-1	A	-A	-C	C
$\chi_{101}^{(38)}$	-1	-B	B	-/B	/B	-1	1	B	-B	/B	-/B	A	-A	-C	C	-/B	/B	-B	B	-A	-1	-A	A	C	-C
$\chi_{101}^{(39)}$	-1	-/B	/B	-B	B	-1	1	/B	-/B	B	-B	-A	A	-/C	/C	-B	B	-/B	/B	A	-1	A	-A	/C	-/C
$\chi_{101}^{(40)}$	-1	-/B	/B	-B	B	-1	1	/B	-/B	B	-B	A	-A	/C	-/C	-B	B	-/B	/B	-A	-1	-A	A	-/C	/C
$\chi_{101}^{(41)}$	-1	-B	B	-/B	/B	1	-1	-B	B	-/B	/B	-1	1	B	-B	-/B	/B	-B	B	-1	-1	-1	1	B	-B
$\chi_{101}^{(42)}$	-1	-/B	/B	-B	B	1	-1	-/B	/B	-B	B	-1	1	/B	-/B	-B	B	-/B	/B	-1	-1	-1	1	/B	-/B
$\chi_{101}^{(43)}$	1	B	-B	-/B	/B	-1	1	B	-B	-/B	/B	1	-1	-B	B	/B	-/B	-B	B	1	-1	1	-1	-B	B
$\chi_{101}^{(44)}$	1	/B	-/B	-B	B	-1	1	/B	-/B	-B	B	1	-1	-/B	/B	B	-B	-/B	/B	1	-1	1	-1	-/B	/B
$\chi_{101}^{(45)}$	1	B	-B	-/B	/B	-1	1	B	-B	-/B	/B	-1	1	B	-B	/B	-/B	-B	B	-1	-1	-1	1	B	-B
$\chi_{101}^{(46)}$	1	/B	-/B	-B	B	-1	1	/B	-/B	-B	B	-1	1	/B	-/B	B	-B	-/B	/B	-1	-1	-1	1	/B	-/B
$\chi_{101}^{(47)}$	-1	-B	B	-/B	/B	1	-1	-B	B	-/B	/B	1	-1	-B	B	-/B	/B	-B	B	1	-1	1	-1	-B	B
$\chi_{101}^{(48)}$	-1	-/B	/B	-B	B	1	-1	-/B	/B	-B	B	1	-1	-/B	/B	-B	B	-/B	/B	1	-1	1	-1	-/B	/B
$\chi_{101}^{(49)}$	1	B	-B	-/B	/B	-1	1	B	-B	-/B	/B	A	-A	-C	C	/B	-/B	-B	B	-A	-1	A	-A	-C	C
$\chi_{101}^{(50)}$	1	B	-B	-/B	/B	-1	1	B	-B	-/B	/B	-A	A	C	-C	/B	-/B	-B	B	A	-1	-A	A	C	-C
$\chi_{101}^{(51)}$	1	/B	-/B	-B	B	-1	1	/B	-/B	-B	B	A	-A	/C	-/C	B	-B	-/B	/B	-A	-1	A	-A	/C	-/C
$\chi_{101}^{(52)}$	1	/B	-/B	-B	B	-1	1	/B	-/B	-B	B	-A	A	-/C	/C	B	-B	-/B	/B	A	-1	-A	A	-/C	/C
$\chi_{101}^{(53)}$	-1	-B	B	-/B	/B	1	-1	-B	B	-/B	/B	-A	A	C	-C	-/B	/B	-B	B	A	-1	-A	A	C	-C
$\chi_{101}^{(54)}$	-1	-B	B	-/B	/B	1	-1	-B	B	-/B	/B	A	-A	-C	C	-/B	/B	-B	B	-A	-1	A	-A	-C	C
$\chi_{101}^{(55)}$	-1	-/B	/B	-B	B	1	-1	-/B	/B	-B	B	-A	A	-/C	/C	-B	B	-/B	/B	A	-1	-A	A	-/C	/C
$\chi_{101}^{(56)}$	-1	-/B	/B	-B	B	1	-1	-/B	/B	-B	B	A	-A	/C	-/C	-B	B	-/B	/B	-A	-1	A	-A	/C	-/C
$\chi_{101}^{(57)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	A	A	A	A	-1	-1	1	1	-A	1	-A	-A	-A	-A
$\chi_{101}^{(58)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-A	-A	-A	-A	-1	-1	1	1	A	1	A	A	A	A
$\chi_{101}^{(59)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-A	-A	-A	-A	1	1	1	1	A	1	A	A	A	A
$\chi_{101}^{(60)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	A	A	A	A	1	1	1	1	-A	1	-A	-A	-A	-A
$\chi_{101}^{(61)}$	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	A	A	A	A	-1	-1	1	1	-A	1	A	A	A	A
$\chi_{101}^{(62)}$	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	-A	-A	-A	-A	-1	-1	1	1	A	1	-A	-A	-A	-A
$\chi_{101}^{(63)}$	1	1	1	1	1	1	1	1	1	1	1	-A	-A	-A	-A	1	1	1	1	A	1	-A	-A	-A	-A
$\chi_{101}^{(64)}$	1	1	1	1	1	1	1	1	1	1	1	A	A	A	A	1	1	1	1	-A	1	A	A	A	A
$\chi_{101}^{(65)}$	1	-B	-B	-/B	-/B	-1	-1	B	B	/B	/B	-1	-1	B	B	-/B	-/B	-B	-B	-1	1	1	1	-B	-B
$\chi_{101}^{(66)}$	1	-/B	-/B	-B	-B	-1	-1	/B	/B	B	B	-1	-1	/B	/B	-B	-B	-/B	-/B	-1	1	1	1	-/B	-/B
$\chi_{101}^{(67)}$	-1	B	B	-/B	-/B	1	1	-B	-B	/B	/B	1	1	-B	-B	/B	/B	-B	-B	1	1	-1	-1	B	B
$\chi_{101}^{(68)}$	-1	/B	/B	-B	-B	1	1	-/B	-/B	B	B	1	1	-/B	-/B	B	B	-/B	-/B	1	1	-1	-1	/B	/B
$\chi_{101}^{(69)}$	-1	B	B	-/B	-/B	1	1	-B	-B	/B	/B	-1	-1	B	B	/B	/B	-B	-B	-1	1	1	1	-B	-B
$\chi_{101}^{(70)}$	-1	/B	/B	-B	-B	1	1	-/B	-/B	B	B	-1	-1	/B	/B	B	B	-/B	-/B	-1	1	1	1	-/B	-/B
$\chi_{101}^{(71)}$	1	-B	-B	-/B	-/B	-1	-1	B	B	/B	/B	1	1	-B	-B	-/B	-/B	-B	-B	1	1	-1	-1	B	B
$\chi_{101}^{(72)}$	1	-/B	-/B	-B	-B	-1	-1	/B	/B	B	B	1	1	-/B	-/B	-B	-B	-/B	-/B	1	1	-1	-1	/B	/B
$\chi_{101}^{(73)}$	-1	B	B	-/B	-/B	1	1	-B	-B	/B	/B	A	A	-C	-C	/B	/B	-B	-B	-A	1	-A	-A	C	C
$\chi_{101}^{(74)}$	-1	B	B	-/B	-/B	1	1	-B	-B	/B	/B	-A	-A	C	C	/B	/B	-B	-B	A	1	A	A	-C	-C
$\chi_{101}^{(75)}$	-1	/B	/B	-B	-B	1	1	-/B	-/B	B	B	A	A	/C	/C	B	B	-/B	-/B	-A	1	-A	-A	-/C	-/C

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$\chi_{101}^{(76)}$	-1	/B	/B	-B	-B	1	1	-/B	-/B	B	B	-A	-A	-/C	-/C	B	B	-/B	-/B	A	1	A	A	/C	/C
$\chi_{101}^{(77)}$	1	-B	-B	-/B	-/B	-1	-1	B	B	/B	/B	-A	-A	C	C	-/B	-/B	-B	-B	A	1	A	A	-C	-C
$\chi_{101}^{(78)}$	1	-B	-B	-/B	-/B	-1	-1	B	B	/B	/B	A	A	-C	-C	-/B	-/B	-B	-B	-A	1	-A	-A	C	C
$\chi_{101}^{(79)}$	1	-/B	-/B	-B	-B	-1	-1	/B	/B	B	B	-A	-A	-/C	-/C	-B	-B	-/B	-/B	A	1	A	A	/C	/C
$\chi_{101}^{(80)}$	1	-/B	-/B	-B	-B	-1	-1	/B	/B	B	B	A	A	/C	/C	-B	-B	-/B	-/B	-A	1	-A	-A	-/C	-/C
$\chi_{101}^{(81)}$	1	-B	-B	-/B	-/B	1	1	-B	-B	-/B	-/B	-1	-1	B	B	-/B	-/B	-B	-B	-1	1	-1	-1	B	B
$\chi_{101}^{(82)}$	1	-/B	-/B	-B	-B	1	1	-/B	-/B	-B	-B	-1	-1	/B	/B	-B	-B	-/B	-/B	-1	1	-1	-1	/B	/B
$\chi_{101}^{(83)}$	-1	B	B	-/B	-/B	-1	-1	B	B	-/B	-/B	1	1	-B	-B	/B	/B	-B	-B	1	1	1	1	-B	-B
$\chi_{101}^{(84)}$	-1	/B	/B	-B	-B	-1	-1	/B	/B	-B	-B	1	1	-/B	-/B	B	B	-/B	-/B	1	1	1	1	-/B	-/B
$\chi_{101}^{(85)}$	-1	B	B	-/B	-/B	-1	-1	B	B	-/B	-/B	-1	-1	B	B	/B	/B	-B	-B	-1	1	-1	-1	B	B
$\chi_{101}^{(86)}$	-1	/B	/B	-B	-B	-1	-1	/B	/B	-B	-B	-1	-1	/B	/B	B	B	-/B	-/B	-1	1	-1	-1	/B	/B
$\chi_{101}^{(87)}$	1	-B	-B	-/B	-/B	1	1	-B	-B	-/B	-/B	1	1	-B	-B	-/B	-/B	-B	-B	1	1	1	1	-B	-B
$\chi_{101}^{(88)}$	1	-/B	-/B	-B	-B	1	1	-/B	-/B	-B	-B	1	1	-/B	-/B	-B	-B	-/B	-/B	1	1	1	1	-/B	-/B
$\chi_{101}^{(89)}$	-1	B	B	-/B	-/B	-1	-1	B	B	-/B	-/B	A	A	-C	-C	/B	/B	-B	-B	-A	1	A	A	-C	-C
$\chi_{101}^{(90)}$	-1	B	B	-/B	-/B	-1	-1	B	B	-/B	-/B	-A	-A	C	C	/B	/B	-B	-B	A	1	-A	-A	C	C
$\chi_{101}^{(91)}$	-1	/B	/B	-B	-B	-1	-1	/B	/B	-B	-B	A	A	/C	/C	B	B	-/B	-/B	-A	1	A	A	/C	/C
$\chi_{101}^{(92)}$	-1	/B	/B	-B	-B	-1	-1	/B	/B	-B	-B	-A	-A	-/C	-/C	B	B	-/B	-/B	A	1	-A	-A	-/C	-/C
$\chi_{101}^{(93)}$	1	-B	-B	-/B	-/B	1	1	-B	-B	-/B	-/B	-A	-A	C	C	-/B	-/B	-B	-B	A	1	-A	-A	C	C
$\chi_{101}^{(94)}$	1	-B	-B	-/B	-/B	1	1	-B	-B	-/B	-/B	A	A	-C	-C	-/B	-/B	-B	-B	-A	1	A	A	-C	-C
$\chi_{101}^{(95)}$	1	-/B	-/B	-B	-B	1	1	-/B	-/B	-B	-B	-A	-A	-/C	-/C	-B	-B	-/B	-/B	A	1	-A	-A	-/C	-/C
$\chi_{101}^{(96)}$	1	-/B	-/B	-B	-B	1	1	-/B	-/B	-B	-B	A	A	/C	/C	-B	-B	-/B	-/B	-A	1	A	A	/C	/C

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$\chi_{101}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{101}^{(2)}$	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	1	-1	
$\chi_{101}^{(3)}$	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	
$\chi_{101}^{(4)}$	1	-1	-1	1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	
$\chi_{101}^{(5)}$	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	
$\chi_{101}^{(6)}$	1	-1	1	-1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	
$\chi_{101}^{(7)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	
$\chi_{101}^{(8)}$	-1	1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	
$\chi_{101}^{(9)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	
$\chi_{101}^{(10)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	1	
$\chi_{101}^{(11)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	
$\chi_{101}^{(12)}$	1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	
$\chi_{101}^{(13)}$	-1	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	
$\chi_{101}^{(14)}$	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{101}^{(15)}$	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{101}^{(16)}$	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	
$\chi_{101}^{(17)}$	1	-1	-1	1	-A	A	-1	1	A	-A	A	-A	-A	A	-A	A	-A	A	A	-A	A	-A	
$\chi_{101}^{(18)}$	1	-1	-1	1	A	-A	-1	1	-A	A	-A	A	A	-A	A	-A	A	-A	-A	A	-A	A	
$\chi_{101}^{(19)}$	-1	1	-1	1	-A	A	-1	1	A	-A	-A	A	A	-A	-A	A	-A	A	A	-A	A	-A	
$\chi_{101}^{(20)}$	-1	1	-1	1	A	-A	-1	1	-A	A	A	-A	-A	A	A	-A	A	-A	-A	A	-A	A	
$\chi_{101}^{(21)}$	-1	1	1	-1	-A	A	1	-1	-A	A	A	-A	A	-A	-A	A	-A	A	-A	A	-A	A	
$\chi_{101}^{(22)}$	-1	1	1	-1	A	-A	1	-1	A	-A	-A	A	-A	A	A	-A	A	-A	A	-A	A	-A	
$\chi_{101}^{(23)}$	1	-1	1	-1	-A	A	1	-1	-A	A	-A	A	-A	A	-A	A	-A	A	-A	A	-A	A	
$\chi_{101}^{(24)}$	1	-1	1	-1	A	-A	1	-1	A	-A	A	-A	A	-A	A	-A	A	-A	A	-A	A	-A	

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$\chi_{101}^{(25)}$	/B	-/B	B	-B	/B	-/B	-1	1	-/B	/B	/B	-/B	-/B	/B	B	-B	-1	1	-B	B	1	-1
$\chi_{101}^{(26)}$	B	-B	/B	-/B	B	-B	-1	1	-B	B	B	-B	-B	B	/B	-/B	-1	1	-/B	/B	1	-1
$\chi_{101}^{(27)}$	-/B	/B	B	-B	/B	-/B	-1	1	-/B	/B	-/B	/B	/B	-/B	B	-B	-1	1	-B	B	1	-1
$\chi_{101}^{(28)}$	-B	B	/B	-/B	B	-B	-1	1	-B	B	-B	B	B	-B	/B	-/B	-1	1	-/B	/B	1	-1
$\chi_{101}^{(29)}$	-/B	/B	B	-B	-/B	/B	-1	1	/B	-/B	/B	-/B	-/B	/B	-B	B	1	-1	B	-B	-1	1
$\chi_{101}^{(30)}$	-B	B	/B	-/B	-B	B	-1	1	B	-B	B	-B	-B	B	-/B	/B	1	-1	/B	-/B	-1	1
$\chi_{101}^{(31)}$	/B	-/B	B	-B	-/B	/B	-1	1	/B	-/B	-/B	/B	/B	-/B	-B	B	1	-1	B	-B	-1	1
$\chi_{101}^{(32)}$	B	-B	/B	-/B	-B	B	-1	1	B	-B	-B	B	B	-B	-/B	/B	1	-1	/B	-/B	-1	1
$\chi_{101}^{(33)}$	-/B	/B	B	-B	-/C	/C	-1	1	/C	-/C	/C	-/C	-/C	/C	C	-C	-A	A	-C	C	A	-A
$\chi_{101}^{(34)}$	-/B	/B	B	-B	/C	-/C	-1	1	-/C	/C	-/C	/C	/C	-/C	-C	C	A	-A	C	-C	-A	A
$\chi_{101}^{(35)}$	-B	B	/B	-/B	C	-C	-1	1	-C	C	-C	C	C	-C	-/C	/C	-A	A	/C	-/C	A	-A
$\chi_{101}^{(36)}$	-B	B	/B	-/B	-C	C	-1	1	C	-C	C	-C	-C	C	/C	-/C	A	-A	-/C	/C	-A	A
$\chi_{101}^{(37)}$	/B	-/B	B	-B	-/C	/C	-1	1	/C	-/C	-/C	/C	/C	-/C	C	-C	-A	A	-C	C	A	-A
$\chi_{101}^{(38)}$	/B	-/B	B	-B	/C	-/C	-1	1	-/C	/C	/C	-/C	-/C	/C	-C	C	A	-A	C	-C	-A	A
$\chi_{101}^{(39)}$	B	-B	/B	-/B	C	-C	-1	1	-C	C	C	-C	-C	C	-/C	/C	-A	A	/C	-/C	A	-A
$\chi_{101}^{(40)}$	B	-B	/B	-/B	-C	C	-1	1	C	-C	-C	C	C	-C	/C	-/C	A	-A	-/C	/C	-A	A
$\chi_{101}^{(41)}$	-/B	/B	-B	B	/B	-/B	1	-1	/B	-/B	/B	-/B	/B	-/B	B	-B	-1	1	B	-B	-1	1
$\chi_{101}^{(42)}$	-B	B	-/B	/B	B	-B	1	-1	B	-B	B	-B	B	-B	/B	-/B	-1	1	/B	-/B	-1	1
$\chi_{101}^{(43)}$	/B	-/B	-B	B	/B	-/B	1	-1	/B	-/B	-/B	/B	-/B	/B	B	-B	-1	1	B	-B	-1	1
$\chi_{101}^{(44)}$	B	-B	-/B	/B	B	-B	1	-1	B	-B	-B	B	-B	B	/B	-/B	-1	1	/B	-/B	-1	1
$\chi_{101}^{(45)}$	/B	-/B	-B	B	-/B	/B	1	-1	-/B	/B	/B	-/B	/B	-/B	-B	B	1	-1	-B	B	1	-1
$\chi_{101}^{(46)}$	B	-B	-/B	/B	-B	B	1	-1	-B	B	B	-B	B	-B	-/B	/B	1	-1	-/B	/B	1	-1
$\chi_{101}^{(47)}$	-/B	/B	-B	B	-/B	/B	1	-1	-/B	/B	-/B	/B	-/B	/B	-B	B	1	-1	-B	B	1	-1
$\chi_{101}^{(48)}$	-B	B	-/B	/B	-B	B	1	-1	-B	B	-B	B	-B	B	-/B	/B	1	-1	-/B	/B	1	-1
$\chi_{101}^{(49)}$	/B	-/B	-B	B	-/C	/C	1	-1	-/C	/C	/C	-/C	/C	-/C	C	-C	-A	A	C	-C	-A	A
$\chi_{101}^{(50)}$	/B	-/B	-B	B	/C	-/C	1	-1	/C	-/C	-/C	/C	-/C	/C	-C	C	A	-A	-C	C	A	-A
$\chi_{101}^{(51)}$	B	-B	-/B	/B	C	-C	1	-1	C	-C	-C	C	-C	C	-/C	/C	-A	A	-/C	/C	-A	A
$\chi_{101}^{(52)}$	B	-B	-/B	/B	-C	C	1	-1	-C	C	C	-C	C	-C	/C	-/C	A	-A	/C	-/C	A	-A
$\chi_{101}^{(53)}$	-/B	/B	-B	B	-/C	/C	1	-1	-/C	/C	-/C	/C	-/C	/C	C	-C	-A	A	C	-C	-A	A
$\chi_{101}^{(54)}$	-/B	/B	-B	B	/C	-/C	1	-1	/C	-/C	/C	-/C	/C	-/C	-C	C	A	-A	-C	C	A	-A
$\chi_{101}^{(55)}$	-B	B	-/B	/B	C	-C	1	-1	C	-C	C	-C	C	-C	-/C	/C	-A	A	-/C	/C	-A	A
$\chi_{101}^{(56)}$	-B	B	-/B	/B	-C	C	1	-1	-C	C	-C	C	-C	C	/C	-/C	A	-A	/C	-/C	A	-A
$\chi_{101}^{(57)}$	1	1	-1	-1	-A	-A	-1	-1	A	A	A	A	-A	-A	-A	-A	-A	-A	A	A	A	A
$\chi_{101}^{(58)}$	1	1	-1	-1	A	A	-1	-1	-A	-A	-A	-A	A	A	A	A	A	A	-A	-A	-A	-A
$\chi_{101}^{(59)}$	-1	-1	-1	-1	-A	-A	-1	-1	A	A	-A	-A	A	A	-A	-A	-A	-A	A	A	A	A
$\chi_{101}^{(60)}$	-1	-1	-1	-1	A	A	-1	-1	-A	-A	A	A	-A	-A	A	A	A	A	-A	-A	-A	-A
$\chi_{101}^{(61)}$	-1	-1	1	1	-A	-A	1	1	-A	-A	A	A	A	A	-A	-A	-A	-A	-A	-A	-A	-A
$\chi_{101}^{(62)}$	-1	-1	1	1	A	A	1	1	A	A	-A	-A	-A	-A	A	A	A	A	A	A	A	A
$\chi_{101}^{(63)}$	1	1	1	1	-A	-A	1	1	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A
$\chi_{101}^{(64)}$	1	1	1	1	A	A	1	1	A	A	A	A	A	A	A	A	A	A	A	A	A	A
$\chi_{101}^{(65)}$	/B	/B	B	B	/B	/B	-1	-1	-/B	-/B	/B	/B	-/B	-/B	B	B	-1	-1	-B	-B	1	1
$\chi_{101}^{(66)}$	B	B	/B	/B	B	B	-1	-1	-B	-B	B	B	-B	-B	/B	/B	-1	-1	-/B	-/B	1	1
$\chi_{101}^{(67)}$	-/B	-/B	B	B	/B	/B	-1	-1	-/B	-/B	-/B	-/B	/B	/B	B	B	-1	-1	-B	-B	1	1
$\chi_{101}^{(68)}$	-B	-B	/B	/B	B	B	-1	-1	-B	-B	-B	-B	B	B	/B	/B	-1	-1	-/B	-/B	1	1
$\chi_{101}^{(69)}$	-/B	-/B	B	B	-/B	-/B	-1	-1	/B	/B	/B	/B	-/B	-/B	-B	-B	1	1	B	B	-1	-1
$\chi_{101}^{(70)}$	-B	-B	/B	/B	-B	-B	-1	-1	B	B	B	B	-B	-B	-/B	-/B	1	1	/B	/B	-1	-1

	80																90					
$\chi_{101}^{(71)}$	/B	/B	B	B	-/B	-/B	-1	-1	/B	/B	-/B	-/B	/B	/B	-B	-B	1	1	B	B	-1	-1
$\chi_{101}^{(72)}$	B	B	/B	/B	-B	-B	-1	-1	B	B	-B	-B	B	B	-/B	-/B	1	1	/B	/B	-1	-1
$\chi_{101}^{(73)}$	-/B	-/B	B	B	-/C	-/C	-1	-1	/C	/C	/C	/C	-/C	-/C	C	C	-A	-A	-C	-C	A	A
$\chi_{101}^{(74)}$	-/B	-/B	B	B	/C	/C	-1	-1	-/C	-/C	-/C	-/C	/C	/C	-C	-C	A	A	C	C	-A	-A
$\chi_{101}^{(75)}$	-B	-B	/B	/B	C	C	-1	-1	-C	-C	-C	-C	C	C	-/C	-/C	-A	-A	/C	/C	A	A
$\chi_{101}^{(76)}$	-B	-B	/B	/B	-C	-C	-1	-1	C	C	C	C	-C	-C	/C	/C	A	A	-/C	-/C	-A	-A
$\chi_{101}^{(77)}$	/B	/B	B	B	-/C	-/C	-1	-1	/C	/C	-/C	-/C	/C	/C	C	C	-A	-A	-C	-C	A	A
$\chi_{101}^{(78)}$	/B	/B	B	B	/C	/C	-1	-1	-/C	-/C	/C	/C	-/C	-/C	-C	-C	A	A	C	C	-A	-A
$\chi_{101}^{(79)}$	B	B	/B	/B	C	C	-1	-1	-C	-C	C	C	-C	-C	-/C	-/C	-A	-A	/C	/C	A	A
$\chi_{101}^{(80)}$	B	B	/B	/B	-C	-C	-1	-1	C	C	-C	-C	C	C	/C	/C	A	A	-/C	-/C	-A	-A
$\chi_{101}^{(81)}$	-/B	-/B	-B	-B	/B	/B	1	1	/B	/B	/B	/B	/B	/B	B	B	-1	-1	B	B	-1	-1
$\chi_{101}^{(82)}$	-B	-B	-/B	-/B	B	B	1	1	B	B	B	B	B	B	/B	/B	-1	-1	/B	/B	-1	-1
$\chi_{101}^{(83)}$	/B	/B	-B	-B	/B	/B	1	1	/B	/B	-/B	-/B	-/B	-/B	B	B	-1	-1	B	B	-1	-1
$\chi_{101}^{(84)}$	B	B	-/B	-/B	B	B	1	1	B	B	-B	-B	-B	-B	/B	/B	-1	-1	/B	/B	-1	-1
$\chi_{101}^{(85)}$	/B	/B	-B	-B	-/B	-/B	1	1	-/B	-/B	/B	/B	/B	/B	-B	-B	1	1	-B	-B	1	1
$\chi_{101}^{(86)}$	B	B	-/B	-/B	-B	-B	1	1	-B	-B	B	B	B	B	-/B	-/B	1	1	-/B	-/B	1	1
$\chi_{101}^{(87)}$	-/B	-/B	-B	-B	-/B	-/B	1	1	-/B	-/B	-/B	-/B	-/B	-/B	-B	-B	1	1	-B	-B	1	1
$\chi_{101}^{(88)}$	-B	-B	-/B	-/B	-B	-B	1	1	-B	-B	-B	-B	-B	-B	-/B	-/B	1	1	-/B	-/B	1	1
$\chi_{101}^{(89)}$	/B	/B	-B	-B	-/C	-/C	1	1	-/C	-/C	/C	/C	/C	/C	C	C	-A	-A	C	C	-A	-A
$\chi_{101}^{(90)}$	/B	/B	-B	-B	/C	/C	1	1	/C	/C	-/C	-/C	-/C	-/C	-C	-C	A	A	-C	-C	A	A
$\chi_{101}^{(91)}$	B	B	-/B	-/B	C	C	1	1	C	C	-C	-C	-C	-C	-/C	-/C	-A	-A	-/C	-/C	-A	-A
$\chi_{101}^{(92)}$	B	B	-/B	-/B	-C	-C	1	1	-C	-C	C	C	C	C	/C	/C	A	A	/C	/C	A	A
$\chi_{101}^{(93)}$	-/B	-/B	-B	-B	-/C	-/C	1	1	-/C	-/C	-/C	-/C	-/C	-/C	C	C	-A	-A	C	C	-A	-A
$\chi_{101}^{(94)}$	-/B	-/B	-B	-B	/C	/C	1	1	/C	/C	/C	/C	/C	/C	-C	-C	A	A	-C	-C	A	A
$\chi_{101}^{(95)}$	-B	-B	-/B	-/B	C	C	1	1	C	C	C	C	C	C	-/C	-/C	-A	-A	-/C	-/C	-A	-A
$\chi_{101}^{(96)}$	-B	-B	-/B	-/B	-C	-C	1	1	-C	-C	-C	-C	-C	-C	/C	/C	A	A	/C	/C	A	A

where A = -E(4) = -ER(-1) = -i, B = -E(3)^2 = (1+ER(-3))/2 = 1+b3, C = E(12)^{11}.

The generators of $G^{s_{102}}$ are:

$$\begin{pmatrix} 0&0&1&-2&1&0&1&0\\ 1&1&0&-3&2&0&1&0\\ 1&0&1&-4&3&0&1&0\\ 2&1&1&-6&4&0&2&-1\\ 2&1&1&-5&3&0&2&-1\\ 1&1&1&-4&2&1&1&-1\\ 0&1&1&-3&2&0&1&-1\\ 0&0&0&-1&1&0&1&-1 \end{pmatrix}, \begin{pmatrix} 1&0&0&0&0&0&0&0\\ 0&1&0&0&0&0&0&0\\ 0&0&1&0&0&0&0&0\\ 0&0&0&1&0&0&0&0\\ 0&0&0&0&1&0&0&0\\ 0&0&0&0&1&-1&1&0\\ 0&0&0&0&0&0&1&0\\ 0&0&0&0&0&0&0&1 \end{pmatrix}, \begin{pmatrix} 0&-1&1&1&-1&0&-1&1\\ 0&-1&1&2&-2&0&-1&0\\ 0&-2&2&2&-2&0&-1&0\\ 0&-2&3&3&-4&0&-1&0\\ 0&-2&3&2&-3&0&-1&0\\ 0&-2&2&2&-2&-1&0&0\\ 0&-2&1&2&-2&0&0&0\\ 1&-1&0&1&-1&0&0&0 \end{pmatrix},$$

$$\begin{pmatrix} 1&-1&0&1&0&-1&0&0\\ 0&-1&0&2&0&-2&0&0\\ 0&-2&1&2&0&-2&0&0\\ 0&-3&0&4&0&-3&0&0\\ 0&-3&0&3&1&-3&0&0\\ 0&-3&0&3&0&-2&0&0\\ 0&-2&0&2&0&-2&1&0\\ 0&-1&0&1&0&-1&0&1 \end{pmatrix}, \begin{pmatrix} -1&1&0&1&-1&-1&1&0\\ 0&1&0&1&-1&-2&2&0\\ 0&2&-1&2&-2&-2&2&0\\ 0&2&-1&3&-3&-3&3&1\\ 0&2&-1&2&-2&-3&3&1\\ 0&1&-1&2&-1&-3&2&1\\ 0&1&-1&1&0&-2&1&1\\ 0&1&0&0&0&-1&0&1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{102}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & -1 & 1 & 1 & -1 & 0 \\ -1 & -1 & 1 & -1 & 0 & 2 & -1 & 0 \\ -1 & -2 & 2 & -2 & 1 & 2 & -1 & 0 \\ -2 & -3 & 2 & -2 & 1 & 3 & -1 & 0 \\ -2 & -3 & 2 & -1 & 0 & 3 & -1 & 0 \\ -1 & -2 & 1 & -1 & 0 & 3 & -1 & 0 \\ 0 & -2 & 0 & 0 & 0 & 2 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & -1 & 1 & 1 & -1 & 0 \\ -1 & -1 & 1 & -1 & 0 & 2 & -1 & 0 \\ -1 & -2 & 2 & -2 & 1 & 2 & -1 & 0 \\ -2 & -2 & 3 & -3 & 1 & 3 & -2 & 1 \\ -2 & -2 & 3 & -2 & 0 & 3 & -2 & 1 \\ -1 & -2 & 2 & -1 & 0 & 2 & -2 & 1 \\ 0 & -1 & 1 & -1 & 0 & 2 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & -1 & 1 & 1 & -1 & 0 \\ -1 & -1 & 1 & -1 & 0 & 2 & -1 & 0 \\ -1 & -2 & 2 & -2 & 1 & 2 & -1 & 0 \\ -2 & -2 & 3 & -3 & 1 & 3 & -2 & 1 \\ -2 & -2 & 3 & -2 & 0 & 3 & -2 & 1 \\ -1 & -1 & 2 & -2 & 0 & 3 & -2 & 1 \\ 0 & -1 & 1 & -1 & 0 & 2 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & -1 & 1 & 1 & -1 & 0 \\ -1 & -1 & 1 & -1 & 0 & 2 & -1 & 0 \\ -1 & -2 & 2 & -2 & 1 & 2 & -1 & 0 \\ -2 & -2 & 3 & -3 & 1 & 3 & -1 & -1 \\ -2 & -2 & 3 & -2 & 0 & 3 & -1 & -1 \\ -1 & -2 & 2 & -1 & 0 & 2 & -1 & -1 \\ 0 & -1 & 1 & -1 & 0 & 2 & -1 & -1 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & -1 & 1 & 1 & -1 & 0 \\ -1 & -1 & 1 & -1 & 0 & 2 & -1 & 0 \\ -1 & -2 & 2 & -2 & 1 & 2 & -1 & 0 \\ -2 & -2 & 3 & -3 & 1 & 3 & -1 & -1 \\ -2 & -2 & 3 & -2 & 0 & 3 & -1 & -1 \\ -1 & -1 & 2 & -2 & 0 & 3 & -1 & -1 \\ 0 & -1 & 1 & -1 & 0 & 2 & -1 & -1 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & -1 & 1 & -1 & 0 \\ -1 & -1 & 1 & 2 & -3 & 2 & -1 & 0 \\ -1 & -2 & 2 & 2 & -3 & 2 & -1 & 0 \\ -2 & -3 & 2 & 4 & -5 & 3 & -1 & 0 \\ -2 & -3 & 2 & 3 & -4 & 3 & -1 & 0 \\ -1 & -3 & 1 & 3 & -3 & 2 & -1 & 0 \\ 0 & -2 & 0 & 2 & -2 & 2 & -1 & 0 \\ 0 & -1 & 0 & 1 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & -1 & 1 & -1 & 0 \\ -1 & -1 & 1 & 2 & -3 & 2 & -1 & 0 \\ -1 & -2 & 2 & 2 & -3 & 2 & -1 & 0 \\ -2 & -3 & 2 & 4 & -5 & 3 & -1 & 0 \\ -2 & -3 & 2 & 3 & -4 & 3 & -1 & 0 \\ -1 & -2 & 1 & 2 & -3 & 3 & -1 & 0 \\ 0 & -2 & 0 & 2 & -2 & 2 & -1 & 0 \\ 0 & -1 & 0 & 1 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & -1 & 1 & -1 & 0 \\ -1 & -1 & 1 & 2 & -3 & 2 & -1 & 0 \\ -1 & -2 & 2 & 2 & -3 & 2 & -1 & 0 \\ -2 & -2 & 3 & 3 & -5 & 3 & -2 & 1 \\ -2 & -2 & 3 & 2 & -4 & 3 & -2 & 1 \\ -1 & -2 & 2 & 2 & -3 & 2 & -2 & 1 \\ 0 & -1 & 1 & 1 & -2 & 2 & -2 & 1 \\ 0 & 0 & 1 & 0 & -1 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & -1 & 1 & -1 & 0 \\ -1 & -1 & 1 & 2 & -3 & 2 & -1 & 0 \\ -1 & -2 & 2 & 2 & -3 & 2 & -1 & 0 \\ -2 & -2 & 3 & 3 & -5 & 3 & -2 & 1 \\ -2 & -2 & 3 & 2 & -4 & 3 & -2 & 1 \\ -1 & -1 & 2 & 1 & -3 & 3 & -2 & 1 \\ 0 & -1 & 1 & 1 & -2 & 2 & -2 & 1 \\ 0 & 0 & 1 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & -1 & 1 & -1 & 0 \\ -1 & -1 & 1 & 2 & -3 & 2 & -1 & 0 \\ -1 & -2 & 2 & 2 & -3 & 2 & -1 & 0 \\ -2 & -2 & 3 & 3 & -5 & 3 & -2 & 1 \\ -2 & -2 & 3 & 2 & -4 & 3 & -2 & 1 \\ -1 & -2 & 2 & 2 & -3 & 2 & -1 & -1 \\ 0 & -1 & 1 & 1 & -2 & 2 & -1 & -1 \\ 0 & -1 & 0 & 1 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & -1 & 1 & -1 & 0 \\ -1 & -1 & 1 & 2 & -3 & 2 & -1 & 0 \\ -1 & -2 & 2 & 2 & -3 & 2 & -1 & 0 \\ -2 & -2 & 3 & 3 & -5 & 3 & -1 & -1 \\ -2 & -2 & 3 & 2 & -4 & 3 & -1 & -1 \\ -1 & -1 & 2 & 1 & -3 & 3 & -1 & -1 \\ 0 & -1 & 1 & 1 & -2 & 2 & -1 & -1 \\ 0 & -1 & 0 & 1 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & -1 & 1 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & -1 & 1 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ 0 & -1 & 0 & 3 & -3 & 0 & 0 & 0 \\ 0 & 0 & -1 & 4 & -4 & 0 & 0 & 0 \\ 0 & -1 & -1 & 6 & -6 & 0 & 0 & 1 \\ 0 & -1 & -1 & 5 & -5 & 0 & 0 & 1 \\ 0 & -1 & -1 & 4 & -4 & 1 & -1 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ 0 & -1 & 0 & 3 & -3 & 0 & 0 & 0 \\ 0 & 0 & -1 & 4 & -4 & 0 & 0 & 0 \\ 0 & -1 & -1 & 6 & -6 & 0 & 0 & 1 \\ 0 & -1 & -1 & 5 & -5 & 0 & 0 & 1 \\ 0 & -1 & -1 & 4 & -3 & -1 & 0 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ 0 & -1 & 0 & 3 & -3 & 0 & 0 & 0 \\ 0 & 0 & -1 & 4 & -4 & 0 & 0 & 0 \\ 0 & -1 & -1 & 6 & -6 & 0 & 1 & -1 \\ 0 & -1 & -1 & 5 & -5 & 0 & 1 & -1 \\ 0 & -1 & -1 & 4 & -4 & 1 & 0 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ 0 & -1 & 0 & 3 & -3 & 0 & 0 & 0 \\ 0 & 0 & -1 & 4 & -4 & 0 & 0 & 0 \\ 0 & -1 & -1 & 6 & -6 & 0 & 1 & -1 \\ 0 & -1 & -1 & 5 & -5 & 0 & 1 & -1 \\ 0 & -1 & -1 & 4 & -3 & -1 & 1 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ 0 & -1 & 0 & 3 & -3 & 0 & 0 & 0 \\ 0 & 0 & -1 & 4 & -4 & 0 & 0 & 0 \\ 0 & 0 & 0 & 5 & -6 & 0 & 0 & 0 \\ 0 & 0 & 0 & 4 & -5 & 0 & 0 & 0 \\ 0 & 0 & 0 & 3 & -4 & 1 & -1 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ 0 & -1 & 0 & 3 & -3 & 0 & 0 & 0 \\ 0 & 0 & -1 & 4 & -4 & 0 & 0 & 0 \\ 0 & 0 & 0 & 5 & -6 & 0 & 0 & 0 \\ 0 & 0 & 0 & 4 & -5 & 0 & 0 & 0 \\ 0 & 0 & 0 & 3 & -3 & -1 & 0 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & -2 & 2 & 0 & 0 & 0 \\ -1 & 1 & 1 & -3 & 2 & 0 & 1 & 0 \\ -1 & 0 & 2 & -4 & 3 & 0 & 1 & 0 \\ -2 & 0 & 2 & -5 & 4 & 0 & 2 & 0 \\ -2 & 0 & 2 & -4 & 3 & 0 & 2 & 0 \\ -1 & 0 & 1 & -3 & 2 & 1 & 1 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -2 & 2 & 0 & 0 & 0 \\ -1 & 1 & 1 & -3 & 2 & 0 & 1 & 0 \\ -1 & 0 & 2 & -4 & 3 & 0 & 1 & 0 \\ -2 & 1 & 3 & -6 & 4 & 0 & 1 & 1 \\ -2 & 1 & 3 & -5 & 3 & 0 & 1 & 1 \\ -1 & 1 & 2 & -4 & 2 & 1 & 0 & 1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 0 & 1 \\ 0 & 1 & 1 & -2 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -2 & 2 & 0 & 0 & 0 \\ -1 & 1 & 1 & -3 & 2 & 0 & 1 & 0 \\ -1 & 0 & 2 & -4 & 3 & 0 & 1 & 0 \\ -2 & 1 & 3 & -6 & 4 & 0 & 2 & -1 \\ -2 & 1 & 3 & -5 & 3 & 0 & 2 & -1 \\ -1 & 1 & 2 & -4 & 2 & 1 & 1 & -1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 1 & 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & 2 & 0 & -1 & 0 & 1 & 0 \\ -2 & 0 & 2 & 1 & -2 & 0 & 2 & 0 \\ -2 & 0 & 2 & 0 & -1 & 0 & 2 & 0 \\ -1 & 0 & 1 & 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 1 & 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & 2 & 0 & -1 & 0 & 1 & 0 \\ -2 & 1 & 3 & 0 & -2 & 0 & 1 & 1 \\ -2 & 1 & 3 & -1 & -1 & 0 & 1 & 1 \\ -1 & 1 & 2 & -1 & -1 & 1 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 1 & 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & 2 & 0 & -1 & 0 & 1 & 0 \\ -2 & 1 & 3 & 0 & -2 & 0 & 2 & -1 \\ -2 & 1 & 3 & -1 & -1 & 0 & 2 & -1 \\ -1 & 1 & 2 & -1 & -1 & 1 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & -2 & 0 & 2 & 0 & 0 \\ 0 & 2 & -1 & -2 & 0 & 2 & 0 & 0 \\ 0 & 2 & -1 & -3 & 0 & 3 & 0 & 1 \\ 0 & 2 & -1 & -2 & -1 & 3 & 0 & 1 \\ 0 & 1 & -1 & -1 & -1 & 3 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & -2 & 0 & 2 & 0 & 0 \\ 0 & 2 & -1 & -2 & 0 & 2 & 0 & 0 \\ 0 & 2 & -1 & -3 & 0 & 3 & 1 & -1 \\ 0 & 2 & -1 & -2 & -1 & 3 & 1 & -1 \\ 0 & 1 & -1 & -1 & -1 & 3 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & -2 & 0 & 2 & 0 & 0 \\ 0 & 2 & -1 & -2 & 0 & 2 & 0 & 0 \\ 0 & 3 & 0 & -4 & 0 & 3 & 0 & 0 \\ 0 & 3 & 0 & -3 & -1 & 3 & 0 & 0 \\ 0 & 2 & 0 & -2 & -1 & 3 & -1 & 0 \\ 0 & 2 & 0 & -2 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 2 & -1 & 3 & -6 & 3 & 0 & 1 \\ 0 & 2 & -1 & 2 & -5 & 3 & 0 & 1 \\ 0 & 1 & -1 & 2 & -4 & 3 & -1 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 2 & -1 & 3 & -6 & 3 & 1 & -1 \\ 0 & 2 & -1 & 2 & -5 & 3 & 1 & -1 \\ 0 & 1 & -1 & 2 & -4 & 3 & 0 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & 0 & 2 & -6 & 3 & 0 & 0 \\ 0 & 3 & 0 & 1 & -5 & 3 & 0 & 0 \\ 0 & 2 & 0 & 1 & -4 & 3 & -1 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 0 & 1 & 0 & -1 & 1 \\ 0 & -3 & 1 & -1 & 2 & 0 & -1 & 1 \\ -1 & -4 & 1 & -1 & 3 & 0 & -2 & 2 \\ -1 & -4 & 1 & 0 & 2 & 0 & -2 & 2 \\ -1 & -3 & 1 & 0 & 1 & 1 & -2 & 1 \\ -1 & -2 & 1 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 0 & 1 & 0 & -1 & 1 \\ 0 & -3 & 1 & -1 & 2 & 0 & -1 & 1 \\ -1 & -4 & 1 & -1 & 3 & 0 & -2 & 2 \\ -1 & -4 & 1 & 0 & 2 & 0 & -2 & 2 \\ -1 & -3 & 1 & 0 & 2 & -1 & -1 & 1 \\ -1 & -2 & 1 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 0 & 1 & 0 & -1 & 1 \\ 0 & -3 & 1 & -1 & 2 & 0 & -1 & 1 \\ 0 & -4 & 1 & -1 & 2 & 0 & -1 & 2 \\ 0 & -4 & 1 & 0 & 1 & 0 & -1 & 2 \\ 0 & -3 & 1 & 0 & 0 & 1 & -1 & 1 \\ 0 & -2 & 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 0 & 1 & 0 & -1 & 1 \\ 0 & -3 & 1 & -1 & 2 & 0 & -1 & 1 \\ 0 & -4 & 1 & -1 & 2 & 0 & -1 & 2 \\ 0 & -4 & 1 & 0 & 1 & 0 & -1 & 2 \\ 0 & -3 & 1 & 0 & 1 & -1 & 0 & 1 \\ 0 & -2 & 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 0 & 1 & 0 & -1 & 1 \\ 0 & -3 & 1 & -1 & 2 & 0 & -1 & 1 \\ 1 & -4 & 0 & -1 & 3 & 0 & -2 & 2 \\ 1 & -4 & 0 & 0 & 2 & 0 & -2 & 2 \\ 1 & -3 & 0 & 0 & 1 & 1 & -2 & 1 \\ 1 & -2 & 0 & 0 & 1 & 0 & -1 & 0 \\ 0 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 0 & 1 & 0 & -1 & 1 \\ 0 & -3 & 1 & -1 & 2 & 0 & -1 & 1 \\ 1 & -4 & 0 & -1 & 3 & 0 & -2 & 2 \\ 1 & -4 & 0 & 0 & 2 & 0 & -2 & 2 \\ 1 & -3 & 0 & 0 & 2 & -1 & -1 & 1 \\ 1 & -2 & 0 & 0 & 1 & 0 & -1 & 0 \\ 0 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 0 & 2 & -1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 1 \\ 0 & -3 & 1 & 3 & -2 & 0 & -1 & 1 \\ -1 & -4 & 1 & 5 & -3 & 0 & -2 & 2 \\ -1 & -4 & 1 & 4 & -2 & 0 & -2 & 2 \\ -1 & -3 & 1 & 3 & -2 & 1 & -2 & 1 \\ -1 & -2 & 1 & 2 & -1 & 0 & -1 & 0 \\ -1 & -1 & 1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 2 & -1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 1 \\ 0 & -3 & 1 & 3 & -2 & 0 & -1 & 1 \\ -1 & -4 & 1 & 5 & -3 & 0 & -2 & 2 \\ -1 & -4 & 1 & 4 & -2 & 0 & -2 & 2 \\ -1 & -3 & 1 & 3 & -1 & -1 & -1 & 1 \\ -1 & -2 & 1 & 2 & -1 & 0 & -1 & 0 \\ -1 & -1 & 1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 2 & -1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 1 \\ 0 & -3 & 1 & 3 & -2 & 0 & -1 & 1 \\ 0 & -4 & 1 & 5 & -4 & 0 & -1 & 2 \\ 0 & -4 & 1 & 4 & -3 & 0 & -1 & 2 \\ 0 & -3 & 1 & 3 & -3 & 1 & -1 & 1 \\ 0 & -2 & 1 & 2 & -2 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 0 & 2 & -1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 1 \\ 0 & -3 & 1 & 3 & -2 & 0 & -1 & 1 \\ 0 & -4 & 1 & 5 & -4 & 0 & -1 & 2 \\ 0 & -4 & 1 & 4 & -3 & 0 & -1 & 2 \\ 0 & -3 & 1 & 3 & -2 & -1 & 0 & 1 \\ 0 & -2 & 1 & 2 & -2 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 2 & -1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 1 \\ 0 & -3 & 1 & 3 & -2 & 0 & -1 & 1 \\ 1 & -4 & 0 & 5 & -3 & 0 & -2 & 2 \\ 1 & -4 & 0 & 4 & -2 & 0 & -2 & 2 \\ 1 & -3 & 0 & 3 & -2 & 1 & -2 & 1 \\ 1 & -2 & 0 & 2 & -1 & 0 & -1 & 0 \\ 0 & -1 & 0 & 1 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 2 & -1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 1 \\ 0 & -3 & 1 & 3 & -2 & 0 & -1 & 1 \\ 1 & -4 & 0 & 5 & -3 & 0 & -2 & 2 \\ 1 & -4 & 0 & 4 & -2 & 0 & -2 & 2 \\ 1 & -3 & 0 & 3 & -1 & -1 & -1 & 1 \\ 1 & -2 & 0 & 2 & -1 & 0 & -1 & 0 \\ 0 & -1 & 0 & 1 & 0 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & -1 & 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & -2 & 1 & 2 & -1 & 1 \\ 0 & -1 & 1 & -3 & 2 & 2 & -1 & 1 \\ -1 & -1 & 1 & -4 & 3 & 3 & -2 & 2 \\ -1 & -1 & 1 & -3 & 2 & 3 & -2 & 2 \\ -1 & -1 & 1 & -2 & 1 & 3 & -2 & 1 \\ -1 & 0 & 1 & -2 & 1 & 2 & -1 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & -1 & 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & -2 & 1 & 2 & -1 & 1 \\ 0 & -1 & 1 & -3 & 2 & 2 & -1 & 1 \\ 0 & -1 & 1 & -4 & 2 & 3 & -1 & 2 \\ 0 & -1 & 1 & -3 & 1 & 3 & -1 & 2 \\ 0 & -1 & 1 & -2 & 0 & 3 & -1 & 1 \\ 0 & 0 & 1 & -2 & 0 & 2 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & -1 & 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & -2 & 1 & 2 & -1 & 1 \\ 0 & -1 & 1 & -3 & 2 & 2 & -1 & 1 \\ 1 & -1 & 0 & -4 & 3 & 3 & -2 & 2 \\ 1 & -1 & 0 & -3 & 2 & 3 & -2 & 2 \\ 1 & -1 & 0 & -2 & 1 & 3 & -2 & 1 \\ 1 & 0 & 0 & -2 & 1 & 2 & -1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -2 & 2 & -1 & 1 \\ 0 & -1 & 1 & 1 & -2 & 2 & -1 & 1 \\ -1 & -1 & 1 & 2 & -3 & 3 & -2 & 2 \\ -1 & -1 & 1 & 1 & -2 & 3 & -2 & 2 \\ -1 & -1 & 1 & 1 & -2 & 3 & -2 & 1 \\ -1 & 0 & 1 & 0 & -1 & 2 & -1 & 0 \\ -1 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -2 & 2 & -1 & 1 \\ 0 & -1 & 1 & 1 & -2 & 2 & -1 & 1 \\ 0 & -1 & 1 & 2 & -4 & 3 & -1 & 2 \\ 0 & -1 & 1 & 1 & -3 & 3 & -1 & 2 \\ 0 & -1 & 1 & 1 & -3 & 3 & -1 & 1 \\ 0 & 0 & 1 & 0 & -2 & 2 & 0 & 0 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -2 & 2 & -1 & 1 \\ 0 & -1 & 1 & 1 & -2 & 2 & -1 & 1 \\ 1 & -1 & 0 & 2 & -3 & 3 & -2 & 2 \\ 1 & -1 & 0 & 1 & -2 & 3 & -2 & 2 \\ 1 & -1 & 0 & 1 & -2 & 3 & -2 & 1 \\ 1 & 0 & 0 & 0 & -1 & 2 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & -1 & 0 & 1 & 0 & 0 \\ 1 & -1 & 0 & -1 & 0 & 2 & -1 & 0 \\ 1 & -2 & 1 & -2 & 1 & 2 & -1 & 0 \\ 2 & -3 & 0 & -2 & 1 & 3 & -1 & 0 \\ 2 & -3 & 0 & -1 & 0 & 3 & -1 & 0 \\ 1 & -3 & 0 & 0 & 0 & 2 & -1 & 0 \\ 0 & -2 & 0 & 0 & 0 & 2 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 0 & 1 & 0 & 0 \\ 1 & -1 & 0 & -1 & 0 & 2 & -1 & 0 \\ 1 & -2 & 1 & -2 & 1 & 2 & -1 & 0 \\ 2 & -3 & 0 & -2 & 1 & 3 & -1 & 0 \\ 2 & -3 & 0 & -1 & 0 & 3 & -1 & 0 \\ 1 & -2 & 0 & -1 & 0 & 3 & -1 & 0 \\ 0 & -2 & 0 & 0 & 0 & 2 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 0 & 1 & 0 & 0 \\ 1 & -1 & 0 & -1 & 0 & 2 & -1 & 0 \\ 1 & -2 & 1 & -2 & 1 & 2 & -1 & 0 \\ 2 & -2 & 1 & -3 & 1 & 3 & -1 & -1 \\ 2 & -2 & 1 & -2 & 0 & 3 & -1 & -1 \\ 1 & -2 & 1 & -1 & 0 & 2 & -1 & -1 \\ 0 & -1 & 1 & -1 & 0 & 2 & -1 & -1 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & -1 & 0 & 1 & 0 & 0 \\ 1 & -1 & 0 & -1 & 0 & 2 & -1 & 0 \\ 1 & -2 & 1 & -2 & 1 & 2 & -1 & 0 \\ 2 & -2 & 1 & -3 & 1 & 3 & -1 & -1 \\ 2 & -2 & 1 & -2 & 0 & 3 & -1 & -1 \\ 1 & -1 & 1 & -2 & 0 & 3 & -1 & -1 \\ 0 & -1 & 1 & -1 & 0 & 2 & -1 & -1 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 1 & -2 & 1 & 0 & 0 \\ 1 & -1 & 0 & 2 & -3 & 2 & -1 & 0 \\ 1 & -2 & 1 & 2 & -3 & 2 & -1 & 0 \\ 2 & -3 & 0 & 4 & -5 & 3 & -1 & 0 \\ 2 & -3 & 0 & 3 & -4 & 3 & -1 & 0 \\ 1 & -3 & 0 & 3 & -3 & 2 & -1 & 0 \\ 0 & -2 & 0 & 2 & -2 & 2 & -1 & 0 \\ 0 & -1 & 0 & 1 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 1 & -2 & 1 & 0 & 0 \\ 1 & -1 & 0 & 2 & -3 & 2 & -1 & 0 \\ 1 & -2 & 1 & 2 & -3 & 2 & -1 & 0 \\ 2 & -3 & 0 & 4 & -5 & 3 & -1 & 0 \\ 2 & -3 & 0 & 3 & -4 & 3 & -1 & 0 \\ 1 & -2 & 0 & 2 & -3 & 3 & -1 & 0 \\ 0 & -2 & 0 & 2 & -2 & 2 & -1 & 0 \\ 0 & -1 & 0 & 1 & -1 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 1 & -2 & 1 & 0 & 0 \\ 1 & -1 & 0 & 2 & -3 & 2 & -1 & 0 \\ 1 & -2 & 1 & 2 & -3 & 2 & -1 & 0 \\ 2 & -2 & 1 & 3 & -5 & 3 & -1 & -1 \\ 2 & -2 & 1 & 2 & -4 & 3 & -1 & -1 \\ 1 & -2 & 1 & 2 & -3 & 2 & -1 & -1 \\ 0 & -1 & 1 & 1 & -2 & 2 & -1 & -1 \\ 0 & -1 & 0 & 1 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 1 & -2 & 1 & 0 & 0 \\ 1 & -1 & 0 & 2 & -3 & 2 & -1 & 0 \\ 1 & -2 & 1 & 2 & -3 & 2 & -1 & 0 \\ 2 & -2 & 1 & 3 & -5 & 3 & -1 & -1 \\ 2 & -2 & 1 & 2 & -4 & 3 & -1 & -1 \\ 1 & -1 & 1 & 1 & -3 & 3 & -1 & -1 \\ 0 & -1 & 1 & 1 & -2 & 2 & -1 & -1 \\ 0 & -1 & 0 & 1 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 0 & 2 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -2 & 1 \\ -1 & 1 & 0 & -2 & 0 & 3 & -3 & 2 \\ -1 & 1 & 0 & -1 & -1 & 3 & -3 & 2 \\ -1 & 0 & 0 & 0 & -1 & 2 & -2 & 1 \\ -1 & 0 & 0 & 0 & -1 & 2 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 0 & 2 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -2 & 1 \\ -1 & 1 & 0 & -2 & 0 & 3 & -3 & 2 \\ -1 & 1 & 0 & -1 & -1 & 3 & -3 & 2 \\ -1 & 1 & 0 & -1 & -1 & 3 & -2 & 1 \\ -1 & 0 & 0 & 0 & -1 & 2 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 0 & 2 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -2 & 1 \\ 0 & 1 & -1 & -2 & 1 & 3 & -4 & 2 \\ 0 & 1 & -1 & -1 & 0 & 3 & -4 & 2 \\ 0 & 0 & -1 & 0 & 0 & 2 & -3 & 1 \\ 0 & 0 & -1 & 0 & 0 & 2 & -2 & 0 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 0 & 2 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -2 & 1 \\ 0 & 1 & -1 & -2 & 1 & 3 & -4 & 2 \\ 0 & 1 & -1 & -1 & 0 & 3 & -4 & 2 \\ 0 & 1 & -1 & -1 & 0 & 3 & -3 & 1 \\ 0 & 0 & -1 & 0 & 0 & 2 & -2 & 0 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 0 & 2 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -2 & 1 \\ 1 & 1 & -1 & -2 & 0 & 3 & -3 & 2 \\ 1 & 1 & -1 & -1 & -1 & 3 & -3 & 2 \\ 1 & 0 & -1 & 0 & -1 & 2 & -2 & 1 \\ 1 & 0 & -1 & 0 & -1 & 2 & -1 & 0 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 0 & 2 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -2 & 1 \\ 1 & 1 & -1 & -2 & 0 & 3 & -3 & 2 \\ 1 & 1 & -1 & -1 & -1 & 3 & -3 & 2 \\ 1 & 1 & -1 & -1 & -1 & 3 & -2 & 1 \\ 1 & 0 & -1 & 0 & -1 & 2 & -1 & 0 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -2 & -1 & -1 & 0 & 2 & 0 & -2 & 1 \\ -2 & -1 & -1 & 1 & 1 & 0 & -2 & 1 \\ -1 & -1 & -1 & 1 & 0 & 1 & -2 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -2 & -1 & -1 & 0 & 2 & 0 & -2 & 1 \\ -2 & -1 & -1 & 1 & 1 & 0 & -2 & 1 \\ -1 & -1 & -1 & 1 & 1 & -1 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -2 & -1 & -1 & 0 & 2 & 0 & -1 & -1 \\ -2 & -1 & -1 & 1 & 1 & 0 & -1 & -1 \\ -1 & -1 & -1 & 1 & 0 & 1 & -1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -2 & -1 & -1 & 0 & 2 & 0 & -1 & -1 \\ -2 & -1 & -1 & 1 & 1 & 0 & -1 & -1 \\ -1 & -1 & -1 & 1 & 1 & -1 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 1 & -1 & 1 \\ 0 & 0 & 0 & 2 & -3 & 2 & -2 & 1 \\ 0 & 1 & -1 & 3 & -4 & 2 & -2 & 1 \\ -1 & 1 & 0 & 4 & -6 & 3 & -3 & 2 \\ -1 & 1 & 0 & 3 & -5 & 3 & -3 & 2 \\ -1 & 0 & 0 & 3 & -4 & 2 & -2 & 1 \\ -1 & 0 & 0 & 2 & -3 & 2 & -1 & 0 \\ 0 & 0 & 0 & 1 & -2 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 1 & -1 & 1 \\ 0 & 0 & 0 & 2 & -3 & 2 & -2 & 1 \\ 0 & 1 & -1 & 3 & -4 & 2 & -2 & 1 \\ -1 & 1 & 0 & 4 & -6 & 3 & -3 & 2 \\ -1 & 1 & 0 & 3 & -5 & 3 & -3 & 2 \\ -1 & 1 & 0 & 2 & -4 & 3 & -2 & 1 \\ -1 & 0 & 0 & 2 & -3 & 2 & -1 & 0 \\ 0 & 0 & 0 & 1 & -2 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 1 & -1 & 1 \\ 0 & 0 & 0 & 2 & -3 & 2 & -2 & 1 \\ 0 & 1 & -1 & 3 & -4 & 2 & -2 & 1 \\ 0 & 1 & -1 & 4 & -5 & 3 & -4 & 2 \\ 0 & 1 & -1 & 3 & -4 & 3 & -4 & 2 \\ 0 & 0 & -1 & 3 & -3 & 2 & -3 & 1 \\ 0 & 0 & -1 & 2 & -2 & 2 & -2 & 0 \\ -1 & 0 & 0 & 1 & -1 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 1 & -1 & 1 \\ 0 & 0 & 0 & 2 & -3 & 2 & -2 & 1 \\ 0 & 1 & -1 & 3 & -4 & 2 & -2 & 1 \\ 0 & 1 & -1 & 4 & -5 & 3 & -4 & 2 \\ 0 & 1 & -1 & 3 & -4 & 3 & -4 & 2 \\ 0 & 1 & -1 & 2 & -3 & 3 & -3 & 1 \\ 0 & 0 & -1 & 2 & -2 & 2 & -2 & 0 \\ -1 & 0 & 0 & 1 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 1 & -1 & 1 \\ 0 & 0 & 0 & 2 & -3 & 2 & -2 & 1 \\ 0 & 1 & -1 & 3 & -4 & 2 & -2 & 1 \\ 1 & 1 & -1 & 4 & -6 & 3 & -3 & 2 \\ 1 & 1 & -1 & 3 & -5 & 3 & -3 & 2 \\ 1 & 0 & -1 & 3 & -4 & 2 & -2 & 1 \\ 1 & 0 & -1 & 2 & -3 & 2 & -1 & 0 \\ 1 & 0 & -1 & 1 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 1 & -1 & 1 \\ 0 & 0 & 0 & 2 & -3 & 2 & -2 & 1 \\ 0 & 1 & -1 & 3 & -4 & 2 & -2 & 1 \\ 1 & 1 & -1 & 4 & -6 & 3 & -3 & 2 \\ 1 & 1 & -1 & 3 & -5 & 3 & -3 & 2 \\ 1 & 1 & -1 & 2 & -4 & 3 & -2 & 1 \\ 1 & 0 & -1 & 2 & -3 & 2 & -1 & 0 \\ 1 & 0 & -1 & 1 & -1 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 2 & -1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 3 & -2 & 0 & -1 & 0 \\ -1 & 0 & -1 & 4 & -3 & 0 & -1 & 0 \\ -2 & -1 & -1 & 6 & -4 & 0 & -2 & 1 \\ -2 & -1 & -1 & 5 & -3 & 0 & -2 & 1 \\ -1 & -1 & -1 & 4 & -3 & 1 & -2 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 3 & -2 & 0 & -1 & 0 \\ -1 & 0 & -1 & 4 & -3 & 0 & -1 & 0 \\ -2 & -1 & -1 & 6 & -4 & 0 & -2 & 1 \\ -2 & -1 & -1 & 5 & -3 & 0 & -2 & 1 \\ -1 & -1 & -1 & 4 & -2 & -1 & -1 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 3 & -2 & 0 & -1 & 0 \\ -1 & 0 & -1 & 4 & -3 & 0 & -1 & 0 \\ -2 & -1 & -1 & 6 & -4 & 0 & -1 & -1 \\ -2 & -1 & -1 & 5 & -3 & 0 & -1 & -1 \\ -1 & -1 & -1 & 4 & -3 & 1 & -1 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 2 & -1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 3 & -2 & 0 & -1 & 0 \\ -1 & 0 & -1 & 4 & -3 & 0 & -1 & 0 \\ -2 & -1 & -1 & 6 & -4 & 0 & -1 & -1 \\ -2 & -1 & -1 & 5 & -3 & 0 & -1 & -1 \\ -1 & -1 & -1 & 4 & -2 & -1 & 0 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 0 & 1 & 0 \\ 1 & 1 & 0 & -3 & 2 & 0 & 1 & 0 \\ 1 & 0 & 1 & -4 & 3 & 0 & 1 & 0 \\ 2 & 0 & 0 & -5 & 4 & 0 & 2 & 0 \\ 2 & 0 & 0 & -4 & 3 & 0 & 2 & 0 \\ 1 & 0 & 0 & -3 & 2 & 1 & 1 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 0 & 1 & 0 \\ 1 & 1 & 0 & -3 & 2 & 0 & 1 & 0 \\ 1 & 0 & 1 & -4 & 3 & 0 & 1 & 0 \\ 2 & 1 & 1 & -6 & 4 & 0 & 2 & -1 \\ 2 & 1 & 1 & -5 & 3 & 0 & 2 & -1 \\ 1 & 1 & 1 & -4 & 2 & 1 & 1 & -1 \\ 0 & 1 & 1 & -3 & 2 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 2 & 0 & 0 & 1 & -2 & 0 & 2 & 0 \\ 2 & 0 & 0 & 0 & -1 & 0 & 2 & 0 \\ 1 & 0 & 0 & 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 2 & 1 & 1 & 0 & -2 & 0 & 2 & -1 \\ 2 & 1 & 1 & -1 & -1 & 0 & 2 & -1 \\ 1 & 1 & 1 & -1 & -1 & 1 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & -1 & 1 & 0 & 0 & 1 \\ 0 & 2 & 0 & -3 & 2 & 0 & 0 & 1 \\ 0 & 3 & -1 & -3 & 2 & 0 & 0 & 1 \\ -1 & 4 & 0 & -5 & 3 & 0 & 0 & 2 \\ -1 & 4 & 0 & -4 & 2 & 0 & 0 & 2 \\ -1 & 3 & 0 & -3 & 1 & 1 & 0 & 1 \\ -1 & 2 & 0 & -2 & 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & -1 & 1 & 0 & 0 & 1 \\ 0 & 2 & 0 & -3 & 2 & 0 & 0 & 1 \\ 0 & 3 & -1 & -3 & 2 & 0 & 0 & 1 \\ 0 & 4 & -1 & -5 & 4 & 0 & -1 & 2 \\ 0 & 4 & -1 & -4 & 3 & 0 & -1 & 2 \\ 0 & 3 & -1 & -3 & 2 & 1 & -1 & 1 \\ 0 & 2 & -1 & -2 & 2 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & -1 & 1 & 0 & 0 & 1 \\ 0 & 2 & 0 & -3 & 2 & 0 & 0 & 1 \\ 0 & 3 & -1 & -3 & 2 & 0 & 0 & 1 \\ 1 & 4 & -1 & -5 & 3 & 0 & 0 & 2 \\ 1 & 4 & -1 & -4 & 2 & 0 & 0 & 2 \\ 1 & 3 & -1 & -3 & 1 & 1 & 0 & 1 \\ 1 & 2 & -1 & -2 & 1 & 0 & 1 & 0 \\ 1 & 1 & -1 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & -1 & 1 & 1 & -1 & 0 \\ -1 & 1 & 0 & -2 & 1 & 2 & -1 & 0 \\ -1 & 2 & -1 & -2 & 1 & 2 & -1 & 0 \\ -2 & 2 & -1 & -3 & 2 & 3 & -2 & 1 \\ -2 & 2 & -1 & -2 & 1 & 3 & -2 & 1 \\ -1 & 1 & -1 & -1 & 0 & 3 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & -1 & 1 & 1 & -1 & 0 \\ -1 & 1 & 0 & -2 & 1 & 2 & -1 & 0 \\ -1 & 2 & -1 & -2 & 1 & 2 & -1 & 0 \\ -2 & 2 & -1 & -3 & 2 & 3 & -1 & -1 \\ -2 & 2 & -1 & -2 & 1 & 3 & -1 & -1 \\ -1 & 1 & -1 & -1 & 0 & 3 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & 2 & 0 & 0 & -1 & 0 & 0 & 1 \\ 0 & 3 & -1 & 1 & -2 & 0 & 0 & 1 \\ -1 & 4 & 0 & 1 & -3 & 0 & 0 & 2 \\ -1 & 4 & 0 & 0 & -2 & 0 & 0 & 2 \\ -1 & 3 & 0 & 0 & -2 & 1 & 0 & 1 \\ -1 & 2 & 0 & 0 & -1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & 2 & 0 & 0 & -1 & 0 & 0 & 1 \\ 0 & 3 & -1 & 1 & -2 & 0 & 0 & 1 \\ 0 & 4 & -1 & 1 & -2 & 0 & -1 & 2 \\ 0 & 4 & -1 & 0 & -1 & 0 & -1 & 2 \\ 0 & 3 & -1 & 0 & -1 & 1 & -1 & 1 \\ 0 & 2 & -1 & 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & 2 & 0 & 0 & -1 & 0 & 0 & 1 \\ 0 & 3 & -1 & 1 & -2 & 0 & 0 & 1 \\ 1 & 4 & -1 & 1 & -3 & 0 & 0 & 2 \\ 1 & 4 & -1 & 0 & -2 & 0 & 0 & 2 \\ 1 & 3 & -1 & 0 & -2 & 1 & 0 & 1 \\ 1 & 2 & -1 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & -1 & 0 & 0 & 1 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 2 & -1 & 2 & -3 & 2 & -1 & 0 \\ -2 & 2 & -1 & 3 & -4 & 3 & -2 & 1 \\ -2 & 2 & -1 & 2 & -3 & 3 & -2 & 1 \\ -1 & 1 & -1 & 2 & -3 & 3 & -2 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & -1 & 1 & -1 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 2 & -1 & 2 & -3 & 2 & -1 & 0 \\ -2 & 2 & -1 & 3 & -4 & 3 & -1 & -1 \\ -2 & 2 & -1 & 2 & -3 & 3 & -1 & -1 \\ -1 & 1 & -1 & 2 & -3 & 3 & -1 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & -1 & 1 & 1 & -1 & 0 \\ 0 & -1 & 0 & -1 & 1 & 2 & -2 & 0 \\ 0 & -2 & 1 & -2 & 2 & 2 & -2 & 0 \\ 0 & -3 & 0 & -2 & 3 & 3 & -3 & 0 \\ 0 & -3 & 0 & -1 & 2 & 3 & -3 & 0 \\ 0 & -3 & 0 & 0 & 1 & 2 & -2 & 0 \\ 0 & -2 & 0 & 0 & 0 & 2 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 1 & 1 & -1 & 0 \\ 0 & -1 & 0 & -1 & 1 & 2 & -2 & 0 \\ 0 & -2 & 1 & -2 & 2 & 2 & -2 & 0 \\ 0 & -3 & 0 & -2 & 3 & 3 & -3 & 0 \\ 0 & -3 & 0 & -1 & 2 & 3 & -3 & 0 \\ 0 & -2 & 0 & -1 & 1 & 3 & -2 & 0 \\ 0 & -2 & 0 & 0 & 0 & 2 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & -1 & 1 & -1 & 0 \\ 0 & -1 & 0 & 2 & -2 & 2 & -2 & 0 \\ 0 & -2 & 1 & 2 & -2 & 2 & -2 & 0 \\ 0 & -3 & 0 & 4 & -3 & 3 & -3 & 0 \\ 0 & -3 & 0 & 3 & -2 & 3 & -3 & 0 \\ 0 & -3 & 0 & 3 & -2 & 2 & -2 & 0 \\ 0 & -2 & 0 & 2 & -2 & 2 & -1 & 0 \\ 0 & -1 & 0 & 1 & -1 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & 1 & -1 & 1 & -1 & 0 \\ 0 & -1 & 0 & 2 & -2 & 2 & -2 & 0 \\ 0 & -2 & 1 & 2 & -2 & 2 & -2 & 0 \\ 0 & -3 & 0 & 4 & -3 & 3 & -3 & 0 \\ 0 & -3 & 0 & 3 & -2 & 3 & -3 & 0 \\ 0 & -2 & 0 & 2 & -2 & 3 & -2 & 0 \\ 0 & -2 & 0 & 2 & -2 & 2 & -1 & 0 \\ 0 & -1 & 0 & 1 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 1 & -1 & -1 & 0 & 1 & 0 & -1 & 0 \\ 1 & 0 & -2 & 0 & 1 & 0 & -1 & 0 \\ 2 & -1 & -3 & 0 & 2 & 0 & -1 & -1 \\ 2 & -1 & -3 & 1 & 1 & 0 & -1 & -1 \\ 1 & -1 & -2 & 1 & 0 & 1 & -1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 1 & -1 & -1 & 0 & 1 & 0 & -1 & 0 \\ 1 & 0 & -2 & 0 & 1 & 0 & -1 & 0 \\ 2 & -1 & -3 & 0 & 2 & 0 & -1 & -1 \\ 2 & -1 & -3 & 1 & 1 & 0 & -1 & -1 \\ 1 & -1 & -2 & 1 & 1 & -1 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 2 & -2 & 0 & 0 & 0 \\ 1 & -1 & -1 & 3 & -2 & 0 & -1 & 0 \\ 1 & 0 & -2 & 4 & -3 & 0 & -1 & 0 \\ 2 & -1 & -3 & 6 & -4 & 0 & -1 & -1 \\ 2 & -1 & -3 & 5 & -3 & 0 & -1 & -1 \\ 1 & -1 & -2 & 4 & -3 & 1 & -1 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 2 & -2 & 0 & 0 & 0 \\ 1 & -1 & -1 & 3 & -2 & 0 & -1 & 0 \\ 1 & 0 & -2 & 4 & -3 & 0 & -1 & 0 \\ 2 & -1 & -3 & 6 & -4 & 0 & -1 & -1 \\ 2 & -1 & -3 & 5 & -3 & 0 & -1 & -1 \\ 1 & -1 & -2 & 4 & -2 & -1 & 0 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -2 & 2 & 0 & 0 & 0 \\ 0 & 1 & 0 & -3 & 3 & 0 & 0 & 0 \\ 0 & 0 & 1 & -4 & 4 & 0 & 0 & 0 \\ 0 & 0 & 0 & -5 & 6 & 0 & 0 & 0 \\ 0 & 0 & 0 & -4 & 5 & 0 & 0 & 0 \\ 0 & 0 & 0 & -3 & 3 & 1 & 0 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & -1 & 1 & 1 & -1 & 0 \\ -1 & -1 & 1 & -1 & 0 & 2 & -1 & 0 \\ -1 & -2 & 2 & -2 & 1 & 2 & -1 & 0 \\ -2 & -3 & 2 & -2 & 1 & 3 & -1 & 0 \\ -2 & -3 & 2 & -1 & 0 & 3 & -1 & 0 \\ -1 & -3 & 1 & 0 & 0 & 2 & -1 & 0 \\ 0 & -2 & 0 & 0 & 0 & 2 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 1 & 0 & 0 \\ 1 & 1 & -1 & -2 & 1 & 2 & -1 & 0 \\ 1 & 2 & -2 & -2 & 1 & 2 & -1 & 0 \\ 2 & 2 & -3 & -3 & 2 & 3 & -1 & -1 \\ 2 & 2 & -3 & -2 & 1 & 3 & -1 & -1 \\ 1 & 1 & -2 & -1 & 0 & 3 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 1 & -2 & 1 & 0 & 0 \\ 1 & 1 & -1 & 1 & -2 & 2 & -1 & 0 \\ 1 & 2 & -2 & 2 & -3 & 2 & -1 & 0 \\ 2 & 2 & -3 & 3 & -4 & 3 & -1 & -1 \\ 2 & 2 & -3 & 2 & -3 & 3 & -1 & -1 \\ 1 & 1 & -2 & 2 & -3 & 3 & -1 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}.$$

The character table of G^{s102}:

										10										20				
$\chi_{102}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{102}^{(2)}$	1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1
$\chi_{102}^{(3)}$	1	1	-1	1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1
$\chi_{102}^{(4)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{102}^{(5)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{102}^{(6)}$	1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1
$\chi_{102}^{(7)}$	1	1	-1	1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1
$\chi_{102}^{(8)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{102}^{(9)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{102}^{(10)}$	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(11)}$	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{102}^{(12)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(13)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{102}^{(14)}$	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(15)}$	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{102}^{(16)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(17)}$	1	A	-/A	/A	-1	1	A	-A	/A	-/A	1	-1	/A	-/A	A	-A	1	-1	-/A	/A	-A	A	-1	1
$\chi_{102}^{(18)}$	1	/A	-A	A	-1	1	/A	-/A	A	-A	1	-1	A	-A	/A	-/A	1	-1	-A	A	-/A	/A	-1	1
$\chi_{102}^{(19)}$	1	/A	-A	A	-1	1	/A	-/A	A	-A	1	-1	-A	A	-/A	/A	-1	1	A	-A	/A	-/A	1	-1
$\chi_{102}^{(20)}$	1	A	-/A	/A	-1	1	A	-A	/A	-/A	1	-1	-/A	/A	-A	A	-1	1	/A	-/A	A	-A	1	-1
$\chi_{102}^{(21)}$	1	-A	/A	-/A	1	-1	A	-A	/A	-/A	1	-1	-/A	/A	-A	A	-1	1	-/A	/A	-A	A	-1	1
$\chi_{102}^{(22)}$	1	-/A	A	-A	1	-1	/A	-/A	A	-A	1	-1	-A	A	-/A	/A	-1	1	-A	A	-/A	/A	-1	1
$\chi_{102}^{(23)}$	1	-/A	A	-A	1	-1	/A	-/A	A	-A	1	-1	A	-A	/A	-/A	1	-1	A	-A	/A	-/A	1	-1
$\chi_{102}^{(24)}$	1	-A	/A	-/A	1	-1	A	-A	/A	-/A	1	-1	/A	-/A	A	-A	1	-1	/A	-/A	A	-A	1	-1
$\chi_{102}^{(25)}$	1	A	-/A	/A	-1	1	A	-A	/A	-/A	1	-1	/A	-/A	A	-A	1	-1	-/A	/A	-A	A	-1	1
$\chi_{102}^{(26)}$	1	/A	-A	A	-1	1	/A	-/A	A	-A	1	-1	A	-A	/A	-/A	1	-1	-A	A	-/A	/A	-1	1
$\chi_{102}^{(27)}$	1	/A	-A	A	-1	1	/A	-/A	A	-A	1	-1	-A	A	-/A	/A	-1	1	A	-A	/A	-/A	1	-1
$\chi_{102}^{(28)}$	1	A	-/A	/A	-1	1	A	-A	/A	-/A	1	-1	-/A	/A	-A	A	-1	1	/A	-/A	A	-A	1	-1
$\chi_{102}^{(29)}$	1	-A	/A	-/A	1	-1	A	-A	/A	-/A	1	-1	-/A	/A	-A	A	-1	1	-/A	/A	-A	A	-1	1
$\chi_{102}^{(30)}$	1	-/A	A	-A	1	-1	/A	-/A	A	-A	1	-1	-A	A	-/A	/A	-1	1	-A	A	-/A	/A	-1	1
$\chi_{102}^{(31)}$	1	-/A	A	-A	1	-1	/A	-/A	A	-A	1	-1	A	-A	/A	-/A	1	-1	A	-A	/A	-/A	1	-1
$\chi_{102}^{(32)}$	1	-A	/A	-/A	1	-1	A	-A	/A	-/A	1	-1	/A	-/A	A	-A	1	-1	/A	-/A	A	-A	1	-1
$\chi_{102}^{(33)}$	1	-A	-/A	-/A	-1	-1	A	A	/A	/A	1	1	/A	/A	A	A	1	1	-/A	-/A	-A	-A	-1	-1
$\chi_{102}^{(34)}$	1	-/A	-A	-A	-1	-1	/A	/A	A	A	1	1	A	A	/A	/A	1	1	-A	-A	-/A	-/A	-1	-1
$\chi_{102}^{(35)}$	1	-/A	-A	-A	-1	-1	/A	/A	A	A	1	1	-A	-A	-/A	-/A	-1	-1	A	A	/A	/A	1	1
$\chi_{102}^{(36)}$	1	-A	-/A	-/A	-1	-1	A	A	/A	/A	1	1	-/A	-/A	-A	-A	-1	-1	/A	/A	A	A	1	1
$\chi_{102}^{(37)}$	1	A	/A	/A	1	1	A	A	/A	/A	1	1	-/A	-/A	-A	-A	-1	-1	-/A	-/A	-A	-A	-1	-1
$\chi_{102}^{(38)}$	1	/A	A	A	1	1	/A	/A	A	A	1	1	-A	-A	-/A	-/A	-1	-1	-A	-A	-/A	-/A	-1	-1
$\chi_{102}^{(39)}$	1	/A	A	A	1	1	/A	/A	A	A	1	1	A	A	/A	/A	1	1	A	A	/A	/A	1	1
$\chi_{102}^{(40)}$	1	A	/A	/A	1	1	A	A	/A	/A	1	1	/A	/A	A	A	1	1	/A	/A	A	A	1	1
$\chi_{102}^{(41)}$	1	-A	-/A	-/A	-1	-1	A	A	/A	/A	1	1	/A	/A	A	A	1	1	-/A	-/A	-A	-A	-1	-1
$\chi_{102}^{(42)}$	1	-/A	-A	-A	-1	-1	/A	/A	A	A	1	1	A	A	/A	/A	1	1	-A	-A	-/A	-/A	-1	-1
$\chi_{102}^{(43)}$	1	-/A	-A	-A	-1	-1	/A	/A	A	A	1	1	-A	-A	-/A	-/A	-1	-1	A	A	/A	/A	1	1
$\chi_{102}^{(44)}$	1	-A	-/A	-/A	-1	-1	A	A	/A	/A	1	1	-/A	-/A	-A	-A	-1	-1	/A	/A	A	A	1	1
$\chi_{102}^{(45)}$	1	A	/A	/A	1	1	A	A	/A	/A	1	1	-/A	-/A	-A	-A	-1	-1	-/A	-/A	-A	-A	-1	-1

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$\chi_{102}^{(46)}$	1	/A	A	A	1	1	/A	/A	A	A	1	1	-A	-A	-/A	-/A	-1	-1	-A	-A	-/A	-/A	-1	-1
$\chi_{102}^{(47)}$	1	/A	A	A	1	1	/A	/A	A	A	1	1	A	A	/A	/A	1	1	A	A	/A	/A	1	1
$\chi_{102}^{(48)}$	1	A	/A	/A	1	1	A	A	/A	/A	1	1	/A	/A	A	A	1	1	/A	/A	A	A	1	1
$\chi_{102}^{(49)}$	2	-1	2	2	-1	-1	-1	-1	2	2	-1	-1	-1	-1	-1	-1	2	2	-1	-1	-1	-1	2	2
$\chi_{102}^{(50)}$	2	1	2	-2	-1	1	-1	1	2	-2	-1	1	1	-1	1	-1	-2	2	1	-1	1	-1	-2	2
$\chi_{102}^{(51)}$	2	1	-2	-2	1	1	-1	-1	2	2	-1	-1	-1	-1	-1	-1	2	2	1	1	1	1	-2	-2
$\chi_{102}^{(52)}$	2	-1	-2	2	1	-1	-1	1	2	-2	-1	1	1	-1	1	-1	-2	2	-1	1	-1	1	2	-2
$\chi_{102}^{(53)}$	2	-1	-2	2	1	-1	-1	1	2	-2	-1	1	-1	1	-1	1	2	-2	1	-1	1	-1	-2	2
$\chi_{102}^{(54)}$	2	1	-2	-2	1	1	-1	-1	2	2	-1	-1	1	1	1	1	-2	-2	-1	-1	-1	-1	2	2
$\chi_{102}^{(55)}$	2	1	2	-2	-1	1	-1	1	2	-2	-1	1	-1	1	-1	1	2	-2	-1	1	-1	1	2	-2
$\chi_{102}^{(56)}$	2	-1	2	2	-1	-1	-1	-1	2	2	-1	-1	1	1	1	1	-2	-2	1	1	1	1	-2	-2
$\chi_{102}^{(57)}$	2	.	-1	.	-1	.	-1	.	-1	.	-1	.	.	2	.	2	.	2	.	2	.	2	.	2
$\chi_{102}^{(58)}$	2	.	-1	.	-1	.	-1	.	-1	.	-1	.	.	2	.	2	.	2	.	2	.	2	.	2
$\chi_{102}^{(59)}$	2	.	1	.	1	.	-1	.	-1	.	-1	.	.	2	.	2	.	2	.	-2	.	-2	.	-2
$\chi_{102}^{(60)}$	2	.	1	.	1	.	-1	.	-1	.	-1	.	.	2	.	2	.	2	.	-2	.	-2	.	-2
$\chi_{102}^{(61)}$	2	.	1	.	1	.	-1	.	-1	.	-1	.	.	-2	.	-2	.	-2	.	2	.	2	.	2
$\chi_{102}^{(62)}$	2	.	1	.	1	.	-1	.	-1	.	-1	.	.	-2	.	-2	.	-2	.	2	.	2	.	2
$\chi_{102}^{(63)}$	2	.	-1	.	-1	.	-1	.	-1	.	-1	.	.	-2	.	-2	.	-2	.	-2	.	-2	.	-2
$\chi_{102}^{(64)}$	2	.	-1	.	-1	.	-1	.	-1	.	-1	.	.	-2	.	-2	.	-2	.	-2	.	-2	.	-2
$\chi_{102}^{(65)}$	2	-A	B	B	-1	-1	-A	-A	B	B	-1	-1	-/A	-/A	-A	-A	2	2	-/A	-/A	-A	-A	2	2
$\chi_{102}^{(66)}$	2	-/A	/B	/B	-1	-1	-/A	-/A	/B	/B	-1	-1	-A	-A	-/A	-/A	2	2	-A	-A	-/A	-/A	2	2
$\chi_{102}^{(67)}$	2	A	B	-B	-1	1	-A	A	B	-B	-1	1	/A	-/A	A	-A	-2	2	/A	-/A	A	-A	-2	2
$\chi_{102}^{(68)}$	2	/A	/B	-/B	-1	1	-/A	/A	/B	-/B	-1	1	A	-A	/A	-/A	-2	2	A	-A	/A	-/A	-2	2
$\chi_{102}^{(69)}$	2	A	-B	-B	1	1	-A	-A	B	B	-1	-1	-/A	-/A	-A	-A	2	2	/A	/A	A	A	-2	-2
$\chi_{102}^{(70)}$	2	/A	-/B	-/B	1	1	-/A	-/A	/B	/B	-1	-1	-A	-A	-/A	-/A	2	2	A	A	/A	/A	-2	-2
$\chi_{102}^{(71)}$	2	-A	-B	B	1	-1	-A	A	B	-B	-1	1	/A	-/A	A	-A	-2	2	-/A	/A	-A	A	2	-2
$\chi_{102}^{(72)}$	2	-/A	-/B	/B	1	-1	-/A	/A	/B	-/B	-1	1	A	-A	/A	-/A	-2	2	-A	A	-/A	/A	2	-2
$\chi_{102}^{(73)}$	2	-A	-B	B	1	-1	-A	A	B	-B	-1	1	-/A	/A	-A	A	2	-2	/A	-/A	A	-A	-2	2
$\chi_{102}^{(74)}$	2	-/A	-/B	/B	1	-1	-/A	/A	/B	-/B	-1	1	-A	A	-/A	/A	2	-2	A	-A	/A	-/A	-2	2
$\chi_{102}^{(75)}$	2	A	-B	-B	1	1	-A	-A	B	B	-1	-1	/A	/A	A	A	-2	-2	-/A	-/A	-A	-A	2	2
$\chi_{102}^{(76)}$	2	/A	-/B	-/B	1	1	-/A	-/A	/B	/B	-1	-1	A	A	/A	/A	-2	-2	-A	-A	-/A	-/A	2	2
$\chi_{102}^{(77)}$	2	A	B	-B	-1	1	-A	A	B	-B	-1	1	-/A	/A	-A	A	2	-2	-/A	/A	-A	A	2	-2
$\chi_{102}^{(78)}$	2	/A	/B	-/B	-1	1	-/A	/A	/B	-/B	-1	1	-A	A	-/A	/A	2	-2	-A	A	-/A	/A	2	-2
$\chi_{102}^{(79)}$	2	-A	B	B	-1	-1	-A	-A	B	B	-1	-1	/A	/A	A	A	-2	-2	/A	/A	A	A	-2	-2
$\chi_{102}^{(80)}$	2	-/A	/B	/B	-1	-1	-/A	-/A	/B	/B	-1	-1	A	A	/A	/A	-2	-2	A	A	/A	/A	-2	-2
$\chi_{102}^{(81)}$	2	.	-/A	.	-1	.	-A	.	-/A	.	-1	.	.	B	.	/B	.	2	.	B	.	/B	.	2
$\chi_{102}^{(82)}$	2	.	-A	.	-1	.	-/A	.	-A	.	-1	.	.	/B	.	B	.	2	.	/B	.	B	.	2
$\chi_{102}^{(83)}$	2	.	-/A	.	-1	.	-A	.	-/A	.	-1	.	.	B	.	/B	.	2	.	B	.	/B	.	2
$\chi_{102}^{(84)}$	2	.	-A	.	-1	.	-/A	.	-A	.	-1	.	.	/B	.	B	.	2	.	/B	.	B	.	2
$\chi_{102}^{(85)}$	2	.	/A	.	1	.	-A	.	-/A	.	-1	.	.	B	.	/B	.	2	.	-B	.	-/B	.	-2
$\chi_{102}^{(86)}$	2	.	A	.	1	.	-/A	.	-A	.	-1	.	.	/B	.	B	.	2	.	-/B	.	-B	.	-2
$\chi_{102}^{(87)}$	2	.	/A	.	1	.	-A	.	-/A	.	-1	.	.	B	.	/B	.	2	.	-B	.	-/B	.	-2
$\chi_{102}^{(88)}$	2	.	A	.	1	.	-/A	.	-A	.	-1	.	.	/B	.	B	.	2	.	-/B	.	-B	.	-2
$\chi_{102}^{(89)}$	2	.	/A	.	1	.	-A	.	-/A	.	-1	.	.	-B	.	-/B	.	-2	.	B	.	/B	.	2
$\chi_{102}^{(90)}$	2	.	A	.	1	.	-/A	.	-A	.	-1	.	.	-/B	.	-B	.	-2	.	/B	.	B	.	2

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$\chi_{102}^{(91)}$	2	.	/A	.	1	.	-A	.	-/A	.	-1	.	.	-B	.	-/B	.	-2	.	B	.	/B	.	2
$\chi_{102}^{(92)}$	2	.	A	.	1	.	-/A	.	-A	.	-1	.	.	-/B	.	-B	.	-2	.	/B	.	B	.	2
$\chi_{102}^{(93)}$	2	.	-/A	.	-1	.	-A	.	-/A	.	-1	.	.	-B	.	-/B	.	-2	.	-B	.	-/B	.	-2
$\chi_{102}^{(94)}$	2	.	-A	.	-1	.	-/A	.	-A	.	-1	.	.	-/B	.	-B	.	-2	.	-/B	.	-B	.	-2
$\chi_{102}^{(95)}$	2	.	-/A	.	-1	.	-A	.	-/A	.	-1	.	.	-B	.	-/B	.	-2	.	-B	.	-/B	.	-2
$\chi_{102}^{(96)}$	2	.	-A	.	-1	.	-/A	.	-A	.	-1	.	.	-/B	.	-B	.	-2	.	-/B	.	-B	.	-2
$\chi_{102}^{(97)}$	4	.	-2	.	1	.	1	.	-2	.	1	.	.	-2	.	-2	.	4	.	-2	.	-2	.	4
$\chi_{102}^{(98)}$	4	.	2	.	-1	.	1	.	-2	.	1	.	.	-2	.	-2	.	4	.	2	.	2	.	-4
$\chi_{102}^{(99)}$	4	.	2	.	-1	.	1	.	-2	.	1	.	.	2	.	2	.	-4	.	-2	.	-2	.	4
$\chi_{102}^{(100)}$	4	.	-2	.	1	.	1	.	-2	.	1	.	.	2	.	2	.	-4	.	2	.	2	.	-4
$\chi_{102}^{(101)}$	4	.	-B	.	1	.	A	.	-B	.	1	.	.	-B	.	-/B	.	4	.	-B	.	-/B	.	4
$\chi_{102}^{(102)}$	4	.	-/B	.	1	.	/A	.	-/B	.	1	.	.	-/B	.	-B	.	4	.	-/B	.	-B	.	4
$\chi_{102}^{(103)}$	4	.	B	.	-1	.	A	.	-B	.	1	.	.	-B	.	-/B	.	4	.	B	.	/B	.	-4
$\chi_{102}^{(104)}$	4	.	/B	.	-1	.	/A	.	-/B	.	1	.	.	-/B	.	-B	.	4	.	/B	.	B	.	-4
$\chi_{102}^{(105)}$	4	.	B	.	-1	.	A	.	-B	.	1	.	.	B	.	/B	.	-4	.	-B	.	-/B	.	4
$\chi_{102}^{(106)}$	4	.	/B	.	-1	.	/A	.	-/B	.	1	.	.	/B	.	B	.	-4	.	-/B	.	-B	.	4
$\chi_{102}^{(107)}$	4	.	-B	.	1	.	A	.	-B	.	1	.	.	B	.	/B	.	-4	.	B	.	/B	.	-4
$\chi_{102}^{(108)}$	4	.	-/B	.	1	.	/A	.	-/B	.	1	.	.	/B	.	B	.	-4	.	/B	.	B	.	-4

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$\chi_{102}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{102}^{(2)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1
$\chi_{102}^{(3)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1
$\chi_{102}^{(4)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{102}^{(5)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{102}^{(6)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1
$\chi_{102}^{(7)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1
$\chi_{102}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{102}^{(9)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{102}^{(10)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(11)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(12)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(13)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(14)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{102}^{(15)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{102}^{(16)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{102}^{(17)}$	-A	-/A	-1	A	/A	1	-/A	-A	-1	/A	A	1	A	-A	/A	-/A	1	-1	-A	A	-/A	/A	-1	1
$\chi_{102}^{(18)}$	-/A	-A	-1	/A	A	1	-A	-/A	-1	A	/A	1	/A	-/A	A	-A	1	-1	-/A	/A	-A	A	-1	1
$\chi_{102}^{(19)}$	-/A	-A	-1	/A	A	1	A	/A	1	-A	-/A	-1	/A	-/A	A	-A	1	-1	-/A	/A	-A	A	-1	1
$\chi_{102}^{(20)}$	-A	-/A	-1	A	/A	1	/A	A	1	-/A	-A	-1	A	-A	/A	-/A	1	-1	-A	A	-/A	/A	-1	1
$\chi_{102}^{(21)}$	A	/A	1	A	/A	1	/A	A	1	/A	A	1	-A	A	-/A	/A	-1	1	-A	A	-/A	/A	-1	1
$\chi_{102}^{(22)}$	/A	A	1	/A	A	1	A	/A	1	A	/A	1	-/A	/A	-A	A	-1	1	-/A	/A	-A	A	-1	1
$\chi_{102}^{(23)}$	/A	A	1	/A	A	1	-A	-/A	-1	-A	-/A	-1	-/A	/A	-A	A	-1	1	-/A	/A	-A	A	-1	1
$\chi_{102}^{(24)}$	A	/A	1	A	/A	1	-/A	-A	-1	-/A	-A	-1	-A	A	-/A	/A	-1	1	-A	A	-/A	/A	-1	1
$\chi_{102}^{(25)}$	-A	-/A	-1	A	/A	1	-/A	-A	-1	/A	A	1	-A	A	-/A	/A	-1	1	A	-A	/A	-/A	1	-1

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$\chi_{102}^{(26)}$	-/A	-A	-1	/A	A	1	-A	-/A	-1	A	/A	1	-/A	/A	-A	A	-1	1	/A	-/A	A	-A	1	-1
$\chi_{102}^{(27)}$	-/A	-A	-1	/A	A	1	A	/A	1	-A	-/A	-1	-/A	/A	-A	A	-1	1	/A	-/A	A	-A	1	-1
$\chi_{102}^{(28)}$	-A	-/A	-1	A	/A	1	/A	A	1	-/A	-A	-1	-A	A	-/A	/A	-1	1	A	-A	/A	-/A	1	-1
$\chi_{102}^{(29)}$	A	/A	1	A	/A	1	/A	A	1	/A	A	1	A	-A	/A	-/A	1	-1	A	-A	/A	-/A	1	-1
$\chi_{102}^{(30)}$	/A	A	1	/A	A	1	A	/A	1	A	/A	1	/A	-/A	A	-A	1	-1	/A	-/A	A	-A	1	-1
$\chi_{102}^{(31)}$	/A	A	1	/A	A	1	-A	-/A	-1	-A	-/A	-1	/A	-/A	A	-A	1	-1	/A	-/A	A	-A	1	-1
$\chi_{102}^{(32)}$	A	/A	1	A	/A	1	-/A	-A	-1	-/A	-A	-1	A	-A	/A	-/A	1	-1	A	-A	/A	-/A	1	-1
$\chi_{102}^{(33)}$	-A	-/A	-1	A	/A	1	/A	A	1	-/A	-A	-1	A	A	/A	/A	1	1	-A	-A	-/A	-/A	-1	-1
$\chi_{102}^{(34)}$	-/A	-A	-1	/A	A	1	A	/A	1	-A	-/A	-1	/A	/A	A	A	1	1	-/A	-/A	-A	-A	-1	-1
$\chi_{102}^{(35)}$	-/A	-A	-1	/A	A	1	-A	-/A	-1	A	/A	1	/A	/A	A	A	1	1	-/A	-/A	-A	-A	-1	-1
$\chi_{102}^{(36)}$	-A	-/A	-1	A	/A	1	-/A	-A	-1	/A	A	1	A	A	/A	/A	1	1	-A	-A	-/A	-/A	-1	-1
$\chi_{102}^{(37)}$	A	/A	1	A	/A	1	-/A	-A	-1	-/A	-A	-1	-A	-A	-/A	-/A	-1	-1	-A	-A	-/A	-/A	-1	-1
$\chi_{102}^{(38)}$	/A	A	1	/A	A	1	-A	-/A	-1	-A	-/A	-1	-/A	-/A	-A	-A	-1	-1	-/A	-/A	-A	-A	-1	-1
$\chi_{102}^{(39)}$	/A	A	1	/A	A	1	A	/A	1	A	/A	1	-/A	-/A	-A	-A	-1	-1	-/A	-/A	-A	-A	-1	-1
$\chi_{102}^{(40)}$	A	/A	1	A	/A	1	/A	A	1	/A	A	1	-A	-A	-/A	-/A	-1	-1	-A	-A	-/A	-/A	-1	-1
$\chi_{102}^{(41)}$	-A	-/A	-1	A	/A	1	/A	A	1	-/A	-A	-1	-A	-A	-/A	-/A	-1	-1	A	A	/A	/A	1	1
$\chi_{102}^{(42)}$	-/A	-A	-1	/A	A	1	A	/A	1	-A	-/A	-1	-/A	-/A	-A	-A	-1	-1	/A	/A	A	A	1	1
$\chi_{102}^{(43)}$	-/A	-A	-1	/A	A	1	-A	-/A	-1	A	/A	1	-/A	-/A	-A	-A	-1	-1	/A	/A	A	A	1	1
$\chi_{102}^{(44)}$	-A	-/A	-1	A	/A	1	-/A	-A	-1	/A	A	1	-A	-A	-/A	-/A	-1	-1	A	A	/A	/A	1	1
$\chi_{102}^{(45)}$	A	/A	1	A	/A	1	-/A	-A	-1	-/A	-A	-1	A	A	/A	/A	1	1	A	A	/A	/A	1	1
$\chi_{102}^{(46)}$	/A	A	1	/A	A	1	-A	-/A	-1	-A	-/A	-1	/A	/A	A	A	1	1	/A	/A	A	A	1	1
$\chi_{102}^{(47)}$	/A	A	1	/A	A	1	A	/A	1	A	/A	1	/A	/A	A	A	1	1	/A	/A	A	A	1	1
$\chi_{102}^{(48)}$	A	/A	1	A	/A	1	/A	A	1	/A	A	1	A	A	/A	/A	1	1	A	A	/A	/A	1	1
$\chi_{102}^{(49)}$	-1	2	-1	-1	2	-1	-1	-1	2	-1	-1	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(50)}$	-1	2	-1	-1	2	-1	-1	-1	2	-1	-1	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(51)}$	1	-2	1	-1	2	-1	-1	-1	2	1	1	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(52)}$	1	-2	1	-1	2	-1	-1	-1	2	1	1	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(53)}$	1	-2	1	-1	2	-1	1	1	-2	-1	-1	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(54)}$	1	-2	1	-1	2	-1	1	1	-2	-1	-1	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(55)}$	-1	2	-1	-1	2	-1	1	1	-2	1	1	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(56)}$	-1	2	-1	-1	2	-1	1	1	-2	1	1	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(57)}$	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	.	2	.	2	.	2	.	2	.	2	.	2
$\chi_{102}^{(58)}$	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	.	-2	.	-2	.	-2	.	-2	.	-2	.	-2
$\chi_{102}^{(59)}$	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	.	-2	.	-2	.	-2	.	2	.	2	.	2
$\chi_{102}^{(60)}$	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	.	2	.	2	.	2	.	-2	.	-2	.	-2
$\chi_{102}^{(61)}$	-2	-2	-2	2	2	2	1	1	1	-1	-1	-1	.	-2	.	-2	.	-2	.	2	.	2	.	2
$\chi_{102}^{(62)}$	-2	-2	-2	2	2	2	1	1	1	-1	-1	-1	.	2	.	2	.	2	.	-2	.	-2	.	-2
$\chi_{102}^{(63)}$	2	2	2	2	2	2	1	1	1	1	1	1	.	2	.	2	.	2	.	2	.	2	.	2
$\chi_{102}^{(64)}$	2	2	2	2	2	2	1	1	1	1	1	1	.	-2	.	-2	.	-2	.	-2	.	-2	.	-2
$\chi_{102}^{(65)}$	-A	B	-1	-A	B	-1	-/A	-A	2	-/A	-A	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(66)}$	-/A	/B	-1	-/A	/B	-1	-A	-/A	2	-A	-/A	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(67)}$	-A	B	-1	-A	B	-1	-/A	-A	2	-/A	-A	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(68)}$	-/A	/B	-1	-/A	/B	-1	-A	-/A	2	-A	-/A	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(69)}$	A	-B	1	-A	B	-1	-/A	-A	2	/A	A	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(70)}$	/A	-/B	1	-/A	/B	-1	-A	-/A	2	A	/A	-2	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{102}^{(71)}$	A	-B	1	-A	B	-1	-/A	-A	2	/A	A	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(72)}$	/A	-/B	1	-/A	/B	-1	-A	-/A	2	A	/A	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(73)}$	A	-B	1	-A	B	-1	/A	A	-2	-/A	-A	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(74)}$	/A	-/B	1	-/A	/B	-1	A	/A	-2	-A	-/A	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(75)}$	A	-B	1	-A	B	-1	/A	A	-2	-/A	-A	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(76)}$	/A	-/B	1	-/A	/B	-1	A	/A	-2	-A	-/A	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(77)}$	-A	B	-1	-A	B	-1	/A	A	-2	/A	A	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(78)}$	-/A	/B	-1	-/A	/B	-1	A	/A	-2	A	/A	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(79)}$	-A	B	-1	-A	B	-1	/A	A	-2	/A	A	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(80)}$	-/A	/B	-1	-/A	/B	-1	A	/A	-2	A	/A	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(81)}$	/B	B	2	/B	B	2	-/A	-A	-1	-/A	-A	-1	.	/B	.	B	.	2	.	/B	.	B	.	2
$\chi_{102}^{(82)}$	B	/B	2	B	/B	2	-A	-/A	-1	-A	-/A	-1	.	B	.	/B	.	2	.	B	.	/B	.	2
$\chi_{102}^{(83)}$	/B	B	2	/B	B	2	-/A	-A	-1	-/A	-A	-1	.	-/B	.	-B	.	-2	.	-/B	.	-B	.	-2
$\chi_{102}^{(84)}$	B	/B	2	B	/B	2	-A	-/A	-1	-A	-/A	-1	.	-B	.	-/B	.	-2	.	-B	.	-/B	.	-2
$\chi_{102}^{(85)}$	-/B	-B	-2	/B	B	2	-/A	-A	-1	/A	A	1	.	-/B	.	-B	.	-2	.	/B	.	B	.	2
$\chi_{102}^{(86)}$	-B	-/B	-2	B	/B	2	-A	-/A	-1	A	/A	1	.	-B	.	-/B	.	-2	.	B	.	/B	.	2
$\chi_{102}^{(87)}$	-/B	-B	-2	/B	B	2	-/A	-A	-1	/A	A	1	.	/B	.	B	.	2	.	-/B	.	-B	.	-2
$\chi_{102}^{(88)}$	-B	-/B	-2	B	/B	2	-A	-/A	-1	A	/A	1	.	B	.	/B	.	2	.	-B	.	-/B	.	-2
$\chi_{102}^{(89)}$	-/B	-B	-2	/B	B	2	/A	A	1	-/A	-A	-1	.	-/B	.	-B	.	-2	.	/B	.	B	.	2
$\chi_{102}^{(90)}$	-B	-/B	-2	B	/B	2	A	/A	1	-A	-/A	-1	.	-B	.	-/B	.	-2	.	B	.	/B	.	2
$\chi_{102}^{(91)}$	-/B	-B	-2	/B	B	2	/A	A	1	-/A	-A	-1	.	/B	.	B	.	2	.	-/B	.	-B	.	-2
$\chi_{102}^{(92)}$	-B	-/B	-2	B	/B	2	A	/A	1	-A	-/A	-1	.	B	.	/B	.	2	.	-B	.	-/B	.	-2
$\chi_{102}^{(93)}$	/B	B	2	/B	B	2	/A	A	1	/A	A	1	.	/B	.	B	.	2	.	/B	.	B	.	2
$\chi_{102}^{(94)}$	B	/B	2	B	/B	2	A	/A	1	A	/A	1	.	B	.	/B	.	2	.	B	.	/B	.	2
$\chi_{102}^{(95)}$	/B	B	2	/B	B	2	/A	A	1	/A	A	1	.	-/B	.	-B	.	-2	.	-/B	.	-B	.	-2
$\chi_{102}^{(96)}$	B	/B	2	B	/B	2	A	/A	1	A	/A	1	.	-B	.	-/B	.	-2	.	-B	.	-/B	.	-2
$\chi_{102}^{(97)}$	-2	4	-2	-2	4	-2	1	1	-2	1	1	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(98)}$	2	-4	2	-2	4	-2	1	1	-2	-1	-1	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(99)}$	2	-4	2	-2	4	-2	-1	-1	2	1	1	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(100)}$	-2	4	-2	-2	4	-2	-1	-1	2	-1	-1	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(101)}$	-/B	C	-2	-/B	C	-2	/A	A	-2	/A	A	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(102)}$	-B	/C	-2	-B	/C	-2	A	/A	-2	A	/A	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(103)}$	/B	-C	2	-/B	C	-2	/A	A	-2	-/A	-A	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(104)}$	B	-/C	2	-B	/C	-2	A	/A	-2	-A	-/A	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(105)}$	/B	-C	2	-/B	C	-2	-/A	-A	2	/A	A	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(106)}$	B	-/C	2	-B	/C	-2	-A	-/A	2	A	/A	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(107)}$	-/B	C	-2	-/B	C	-2	-/A	-A	2	-/A	-A	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{102}^{(108)}$	-B	/C	-2	-B	/C	-2	-A	-/A	2	-A	-/A	2	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{102}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{102}^{(2)}$	-1	-1	-1	1	1	1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1
$\chi_{102}^{(3)}$	-1	-1	-1	1	1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1
$\chi_{102}^{(4)}$	1	1	1	1	1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1
$\chi_{102}^{(5)}$	1	1	1	1	1	1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1

		50										60										70
$\chi_{102}^{(6)}$	1	1	1	-1	-1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{102}^{(7)}$	1	1	1	-1	-1	-1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1
$\chi_{102}^{(8)}$	-1	-1	-1	-1	-1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1
$\chi_{102}^{(9)}$	-1	-1	-1	-1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{102}^{(10)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
$\chi_{102}^{(11)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1	-1
$\chi_{102}^{(12)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1
$\chi_{102}^{(13)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
$\chi_{102}^{(14)}$	-1	-1	-1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{102}^{(15)}$	-1	-1	-1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(16)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(17)}$	-A	-/A	-1	A	/A	1	-/A	/A	-A	A	/A	-/A	A	-A	-/A	/A	-A	A	-1	1	A	-A
$\chi_{102}^{(18)}$	-/A	-A	-1	/A	A	1	-A	A	-/A	/A	A	-A	/A	-/A	-A	A	-/A	/A	-1	1	/A	-/A
$\chi_{102}^{(19)}$	-/A	-A	-1	/A	A	1	-A	A	-/A	/A	A	-A	/A	-/A	A	-A	/A	-/A	1	-1	-/A	/A
$\chi_{102}^{(20)}$	-A	-/A	-1	A	/A	1	-/A	/A	-A	A	/A	-/A	A	-A	/A	-/A	A	-A	1	-1	-A	A
$\chi_{102}^{(21)}$	A	/A	1	A	/A	1	/A	-/A	A	-A	/A	-/A	A	-A	/A	-/A	A	-A	1	-1	-A	A
$\chi_{102}^{(22)}$	/A	A	1	/A	A	1	A	-A	/A	-/A	A	-A	/A	-/A	A	-A	/A	-/A	1	-1	-/A	/A
$\chi_{102}^{(23)}$	/A	A	1	/A	A	1	A	-A	/A	-/A	A	-A	/A	-/A	-A	A	-/A	/A	-1	1	/A	-/A
$\chi_{102}^{(24)}$	A	/A	1	A	/A	1	/A	-/A	A	-A	/A	-/A	A	-A	-/A	/A	-A	A	-1	1	A	-A
$\chi_{102}^{(25)}$	A	/A	1	-A	-/A	-1	-/A	/A	-A	A	/A	-/A	A	-A	/A	-/A	A	-A	1	-1	A	-A
$\chi_{102}^{(26)}$	/A	A	1	-/A	-A	-1	-A	A	-/A	/A	A	-A	/A	-/A	A	-A	/A	-/A	1	-1	/A	-/A
$\chi_{102}^{(27)}$	/A	A	1	-/A	-A	-1	-A	A	-/A	/A	A	-A	/A	-/A	-A	A	-/A	/A	-1	1	-/A	/A
$\chi_{102}^{(28)}$	A	/A	1	-A	-/A	-1	-/A	/A	-A	A	/A	-/A	A	-A	-/A	/A	-A	A	-1	1	-A	A
$\chi_{102}^{(29)}$	-A	-/A	-1	-A	-/A	-1	/A	-/A	A	-A	/A	-/A	A	-A	-/A	/A	-A	A	-1	1	-A	A
$\chi_{102}^{(30)}$	-/A	-A	-1	-/A	-A	-1	A	-A	/A	-/A	A	-A	/A	-/A	-A	A	-/A	/A	-1	1	-/A	/A
$\chi_{102}^{(31)}$	-/A	-A	-1	-/A	-A	-1	A	-A	/A	-/A	A	-A	/A	-/A	A	-A	/A	-/A	1	-1	/A	-/A
$\chi_{102}^{(32)}$	-A	-/A	-1	-A	-/A	-1	/A	-/A	A	-A	/A	-/A	A	-A	/A	-/A	A	-A	1	-1	A	-A
$\chi_{102}^{(33)}$	A	/A	1	-A	-/A	-1	-/A	-/A	-A	-A	/A	/A	A	A	-/A	-/A	-A	-A	-1	-1	A	A
$\chi_{102}^{(34)}$	/A	A	1	-/A	-A	-1	-A	-A	-/A	-/A	A	A	/A	/A	-A	-A	-/A	-/A	-1	-1	/A	/A
$\chi_{102}^{(35)}$	/A	A	1	-/A	-A	-1	-A	-A	-/A	-/A	A	A	/A	/A	A	A	/A	/A	1	1	-/A	-/A
$\chi_{102}^{(36)}$	A	/A	1	-A	-/A	-1	-/A	-/A	-A	-A	/A	/A	A	A	/A	/A	A	A	1	1	-A	-A
$\chi_{102}^{(37)}$	-A	-/A	-1	-A	-/A	-1	/A	/A	A	A	/A	/A	A	A	/A	/A	A	A	1	1	-A	-A
$\chi_{102}^{(38)}$	-/A	-A	-1	-/A	-A	-1	A	A	/A	/A	A	A	/A	/A	A	A	/A	/A	1	1	-/A	-/A
$\chi_{102}^{(39)}$	-/A	-A	-1	-/A	-A	-1	A	A	/A	/A	A	A	/A	/A	-A	-A	-/A	-/A	-1	-1	/A	/A
$\chi_{102}^{(40)}$	-A	-/A	-1	-A	-/A	-1	/A	/A	A	A	/A	/A	A	A	-/A	-/A	-A	-A	-1	-1	A	A
$\chi_{102}^{(41)}$	-A	-/A	-1	A	/A	1	-/A	-/A	-A	-A	/A	/A	A	A	/A	/A	A	A	1	1	A	A
$\chi_{102}^{(42)}$	-/A	-A	-1	/A	A	1	-A	-A	-/A	-/A	A	A	/A	/A	A	A	/A	/A	1	1	/A	/A
$\chi_{102}^{(43)}$	-/A	-A	-1	/A	A	1	-A	-A	-/A	-/A	A	A	/A	/A	-A	-A	-/A	-/A	-1	-1	-/A	-/A
$\chi_{102}^{(44)}$	-A	-/A	-1	A	/A	1	-/A	-/A	-A	-A	/A	/A	A	A	-/A	-/A	-A	-A	-1	-1	-A	-A
$\chi_{102}^{(45)}$	A	/A	1	A	/A	1	/A	/A	A	A	/A	/A	A	A	-/A	-/A	-A	-A	-1	-1	-A	-A
$\chi_{102}^{(46)}$	/A	A	1	/A	A	1	A	A	/A	/A	A	A	/A	/A	-A	-A	-/A	-/A	-1	-1	-/A	-/A
$\chi_{102}^{(47)}$	/A	A	1	/A	A	1	A	A	/A	/A	A	A	/A	/A	A	A	/A	/A	1	1	/A	/A
$\chi_{102}^{(48)}$	A	/A	1	A	/A	1	/A	/A	A	A	/A	/A	A	A	/A	/A	A	A	1	1	A	A
$\chi_{102}^{(49)}$	.	.	.	.	.	.	-1	-1	2	2	-1	-1	2	2	.	.	.	.	.	.	2	2
$\chi_{102}^{(50)}$	.	.	.	.	.	.	-1	1	2	-2	-1	1	2	-2	.	.	.	.	.	.	-2	2

	50						60														70	
$\chi_{102}^{(51)}$	.	.	.	.	.	.	1	1	-2	-2	-1	-1	2	2	.	.	.	.	.	.	2	2
$\chi_{102}^{(52)}$	.	.	.	.	.	.	1	-1	-2	2	-1	1	2	-2	.	.	.	.	.	.	-2	2
$\chi_{102}^{(53)}$	.	.	.	.	.	.	1	-1	-2	2	-1	1	2	-2	.	.	.	.	.	.	2	-2
$\chi_{102}^{(54)}$	.	.	.	.	.	.	1	1	-2	-2	-1	-1	2	2	.	.	.	.	.	.	-2	-2
$\chi_{102}^{(55)}$	.	.	.	.	.	.	-1	1	2	-2	-1	1	2	-2	.	.	.	.	.	.	2	-2
$\chi_{102}^{(56)}$	.	.	.	.	.	.	-1	-1	2	2	-1	-1	2	2	.	.	.	.	.	.	-2	-2
$\chi_{102}^{(57)}$	-1	-1	-1	-1	-1	-1	-1	.	-1	.	-1	.	-1	.	-1	.	-1	.	-1	.	.	2
$\chi_{102}^{(58)}$	1	1	1	1	1	1	-1	.	-1	.	-1	.	-1	.	1	.	1	.	1	.	.	2
$\chi_{102}^{(59)}$	1	1	1	-1	-1	-1	1	.	1	.	-1	.	-1	.	-1	.	-1	.	-1	.	.	2
$\chi_{102}^{(60)}$	-1	-1	-1	1	1	1	1	.	1	.	-1	.	-1	.	1	.	1	.	1	.	.	2
$\chi_{102}^{(61)}$	1	1	1	-1	-1	-1	1	.	1	.	-1	.	-1	.	1	.	1	.	1	.	.	-2
$\chi_{102}^{(62)}$	-1	-1	-1	1	1	1	1	.	1	.	-1	.	-1	.	-1	.	-1	.	-1	.	.	-2
$\chi_{102}^{(63)}$	-1	-1	-1	-1	-1	-1	-1	.	-1	.	-1	.	-1	.	1	.	1	.	1	.	.	-2
$\chi_{102}^{(64)}$	1	1	1	1	1	1	-1	.	-1	.	-1	.	-1	.	-1	.	-1	.	-1	.	.	-2
$\chi_{102}^{(65)}$	.	.	.	.	.	.	-/A	-/A	/B	/B	-/A	-/A	/B	/B	.	.	.	.	.	.	/B	/B
$\chi_{102}^{(66)}$	.	.	.	.	.	.	-A	-A	B	B	-A	-A	B	B	.	.	.	.	.	.	B	B
$\chi_{102}^{(67)}$	.	.	.	.	.	.	-/A	/A	/B	-/B	-/A	/A	/B	-/B	.	.	.	.	.	.	-/B	/B
$\chi_{102}^{(68)}$	.	.	.	.	.	.	-A	A	B	-B	-A	A	B	-B	.	.	.	.	.	.	-B	B
$\chi_{102}^{(69)}$	.	.	.	.	.	.	/A	/A	-/B	-/B	-/A	-/A	/B	/B	.	.	.	.	.	.	/B	/B
$\chi_{102}^{(70)}$	.	.	.	.	.	.	A	A	-B	-B	-A	-A	B	B	.	.	.	.	.	.	B	B
$\chi_{102}^{(71)}$	.	.	.	.	.	.	/A	-/A	-/B	/B	-/A	/A	/B	-/B	.	.	.	.	.	.	-/B	/B
$\chi_{102}^{(72)}$	.	.	.	.	.	.	A	-A	-B	B	-A	A	B	-B	.	.	.	.	.	.	-B	B
$\chi_{102}^{(73)}$	.	.	.	.	.	.	/A	-/A	-/B	/B	-/A	/A	/B	-/B	.	.	.	.	.	.	/B	-/B
$\chi_{102}^{(74)}$	.	.	.	.	.	.	A	-A	-B	B	-A	A	B	-B	.	.	.	.	.	.	B	-B
$\chi_{102}^{(75)}$	.	.	.	.	.	.	/A	/A	-/B	-/B	-/A	-/A	/B	/B	.	.	.	.	.	.	-/B	-/B
$\chi_{102}^{(76)}$	.	.	.	.	.	.	A	A	-B	-B	-A	-A	B	B	.	.	.	.	.	.	-B	-B
$\chi_{102}^{(77)}$	.	.	.	.	.	.	-/A	/A	/B	-/B	-/A	/A	/B	-/B	.	.	.	.	.	.	/B	-/B
$\chi_{102}^{(78)}$	.	.	.	.	.	.	-A	A	B	-B	-A	A	B	-B	.	.	.	.	.	.	B	-B
$\chi_{102}^{(79)}$	.	.	.	.	.	.	-/A	-/A	/B	/B	-/A	-/A	/B	/B	.	.	.	.	.	.	-/B	-/B
$\chi_{102}^{(80)}$	.	.	.	.	.	.	-A	-A	B	B	-A	-A	B	B	.	.	.	.	.	.	-B	-B
$\chi_{102}^{(81)}$	-A	-/A	-1	-A	-/A	-1	-/A	.	-A	.	-/A	.	-A	.	-/A	.	-A	.	-1	.	.	/B
$\chi_{102}^{(82)}$	-/A	-A	-1	-/A	-A	-1	-A	.	-/A	.	-A	.	-/A	.	-A	.	-/A	.	-1	.	.	B
$\chi_{102}^{(83)}$	A	/A	1	A	/A	1	-/A	.	-A	.	-/A	.	-A	.	/A	.	A	.	1	.	.	/B
$\chi_{102}^{(84)}$	/A	A	1	/A	A	1	-A	.	-/A	.	-A	.	-/A	.	A	.	/A	.	1	.	.	B
$\chi_{102}^{(85)}$	A	/A	1	-A	-/A	-1	/A	.	A	.	-/A	.	-A	.	-/A	.	-A	.	-1	.	.	/B
$\chi_{102}^{(86)}$	/A	A	1	-/A	-A	-1	A	.	/A	.	-A	.	-/A	.	-A	.	-/A	.	-1	.	.	B
$\chi_{102}^{(87)}$	-A	-/A	-1	A	/A	1	/A	.	A	.	-/A	.	-A	.	/A	.	A	.	1	.	.	/B
$\chi_{102}^{(88)}$	-/A	-A	-1	/A	A	1	A	.	/A	.	-A	.	-/A	.	A	.	/A	.	1	.	.	B
$\chi_{102}^{(89)}$	A	/A	1	-A	-/A	-1	/A	.	A	.	-/A	.	-A	.	/A	.	A	.	1	.	.	-/B
$\chi_{102}^{(90)}$	/A	A	1	-/A	-A	-1	A	.	/A	.	-A	.	-/A	.	A	.	/A	.	1	.	.	-B
$\chi_{102}^{(91)}$	-A	-/A	-1	A	/A	1	/A	.	A	.	-/A	.	-A	.	-/A	.	-A	.	-1	.	.	-/B
$\chi_{102}^{(92)}$	-/A	-A	-1	/A	A	1	A	.	/A	.	-A	.	-/A	.	-A	.	-/A	.	-1	.	.	-B
$\chi_{102}^{(93)}$	-A	-/A	-1	-A	-/A	-1	-/A	.	-A	.	-/A	.	-A	.	/A	.	A	.	1	.	.	-/B
$\chi_{102}^{(94)}$	-/A	-A	-1	-/A	-A	-1	-A	.	-/A	.	-A	.	-/A	.	A	.	/A	.	1	.	.	-B
$\chi_{102}^{(95)}$	A	/A	1	A	/A	1	-/A	.	-A	.	-/A	.	-A	.	-/A	.	-A	.	-1	.	.	-/B

		50										60										70
$\chi_{102}^{(96)}$	/A	A	1	/A	A	1	-A	.	-/A	.	-A	.	-/A	.	-A	.	-/A	.	-1	.	.	-B
$\chi_{102}^{(97)}$	.	.	.	.	.	.	1	.	-2	.	1	.	-2	.	.	.	.	.	.	.	.	4
$\chi_{102}^{(98)}$	.	.	.	.	.	.	-1	.	2	.	1	.	-2	.	.	.	.	.	.	.	.	4
$\chi_{102}^{(99)}$	.	.	.	.	.	.	-1	.	2	.	1	.	-2	.	.	.	.	.	.	.	.	-4
$\chi_{102}^{(100)}$	.	.	.	.	.	.	1	.	-2	.	1	.	-2	.	.	.	.	.	.	.	.	-4
$\chi_{102}^{(101)}$	.	.	.	.	.	.	/A	.	-/B	.	/A	.	-/B	.	.	.	.	.	.	.	.	/C
$\chi_{102}^{(102)}$	.	.	.	.	.	.	A	.	-B	.	A	.	-B	.	.	.	.	.	.	.	.	C
$\chi_{102}^{(103)}$	.	.	.	.	.	.	-/A	.	/B	.	/A	.	-/B	.	.	.	.	.	.	.	.	/C
$\chi_{102}^{(104)}$	.	.	.	.	.	.	-A	.	B	.	A	.	-B	.	.	.	.	.	.	.	.	C
$\chi_{102}^{(105)}$	.	.	.	.	.	.	-/A	.	/B	.	/A	.	-/B	.	.	.	.	.	.	.	.	-/C
$\chi_{102}^{(106)}$	.	.	.	.	.	.	-A	.	B	.	A	.	-B	.	.	.	.	.	.	.	.	-C
$\chi_{102}^{(107)}$	.	.	.	.	.	.	/A	.	-/B	.	/A	.	-/B	.	.	.	.	.	.	.	.	-/C
$\chi_{102}^{(108)}$	.	.	.	.	.	.	A	.	-B	.	A	.	-B	.	.	.	.	.	.	.	.	-C

										80										90			
$\chi_{102}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{102}^{(2)}$	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	-1	1	1	-1	-1	-1	-1	-1	1	1
$\chi_{102}^{(3)}$	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1
$\chi_{102}^{(4)}$	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{102}^{(5)}$	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(6)}$	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{102}^{(7)}$	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	1
$\chi_{102}^{(8)}$	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	1	1	1	1	-1	-1	-1	1	1	-1	-1
$\chi_{102}^{(9)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	1	1	1	1	1	1	-1	-1	1	1
$\chi_{102}^{(10)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	1
$\chi_{102}^{(11)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{102}^{(12)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1	1	1
$\chi_{102}^{(13)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	1	1	-1	-1
$\chi_{102}^{(14)}$	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1
$\chi_{102}^{(15)}$	-1	-1	1	1	1	1	1	1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	-1	1	1
$\chi_{102}^{(16)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{102}^{(17)}$	1	-1	/A	-/A	A	-A	1	-1	-A	A	-1	1	-/A	-A	/A	A	-/A	-A	-1	-A	-1	/A	A
$\chi_{102}^{(18)}$	1	-1	A	-A	/A	-/A	1	-1	-/A	/A	-1	1	-A	-/A	A	/A	-A	-/A	-1	-/A	-1	A	/A
$\chi_{102}^{(19)}$	-1	1	-A	A	-/A	/A	-1	1	/A	-/A	1	-1	-A	-/A	A	/A	A	/A	1	/A	1	-A	-/A
$\chi_{102}^{(20)}$	-1	1	-/A	/A	-A	A	-1	1	A	-A	1	-1	-/A	-A	/A	A	/A	A	1	A	1	-/A	-A
$\chi_{102}^{(21)}$	-1	1	/A	-/A	A	-A	1	-1	-A	A	-1	1	/A	A	/A	A	/A	A	1	A	1	/A	A
$\chi_{102}^{(22)}$	-1	1	A	-A	/A	-/A	1	-1	-/A	/A	-1	1	A	/A	A	/A	A	/A	1	/A	1	A	/A
$\chi_{102}^{(23)}$	1	-1	-A	A	-/A	/A	-1	1	/A	-/A	1	-1	A	/A	A	/A	-A	-/A	-1	-/A	-1	-A	-/A
$\chi_{102}^{(24)}$	1	-1	-/A	/A	-A	A	-1	1	A	-A	1	-1	/A	A	/A	A	-/A	-A	-1	-A	-1	-/A	-A
$\chi_{102}^{(25)}$	1	-1	-/A	/A	-A	A	-1	1	-A	A	-1	1	-/A	-A	/A	A	/A	A	1	-A	-1	-/A	-A
$\chi_{102}^{(26)}$	1	-1	-A	A	-/A	/A	-1	1	-/A	/A	-1	1	-A	-/A	A	/A	A	/A	1	-/A	-1	-A	-/A
$\chi_{102}^{(27)}$	-1	1	A	-A	/A	-/A	1	-1	/A	-/A	1	-1	-A	-/A	A	/A	-A	-/A	-1	/A	1	A	/A
$\chi_{102}^{(28)}$	-1	1	/A	-/A	A	-A	1	-1	A	-A	1	-1	-/A	-A	/A	A	-/A	-A	-1	A	1	/A	A
$\chi_{102}^{(29)}$	-1	1	-/A	/A	-A	A	-1	1	-A	A	-1	1	/A	A	/A	A	-/A	-A	-1	A	1	-/A	-A
$\chi_{102}^{(30)}$	-1	1	-A	A	-/A	/A	-1	1	-/A	/A	-1	1	A	/A	A	/A	-A	-/A	-1	/A	1	-A	-/A

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$\chi_{102}^{(31)}$	1	-1	A	-A	/A	-/A	1	-1	/A	-/A	1	-1	A	/A	A	/A	A	/A	1	-/A	-1	A	/A
$\chi_{102}^{(32)}$	1	-1	/A	-/A	A	-A	1	-1	A	-A	1	-1	/A	A	/A	A	/A	A	1	-A	-1	/A	A
$\chi_{102}^{(33)}$	1	1	/A	/A	A	A	1	1	-A	-A	-1	-1	-/A	-A	/A	A	-/A	-A	-1	A	1	/A	A
$\chi_{102}^{(34)}$	1	1	A	A	/A	/A	1	1	-/A	-/A	-1	-1	-A	-/A	A	/A	-A	-/A	-1	/A	1	A	/A
$\chi_{102}^{(35)}$	-1	-1	-A	-A	-/A	-/A	-1	-1	/A	/A	1	1	-A	-/A	A	/A	A	/A	1	-/A	-1	-A	-/A
$\chi_{102}^{(36)}$	-1	-1	-/A	-/A	-A	-A	-1	-1	A	A	1	1	-/A	-A	/A	A	/A	A	1	-A	-1	-/A	-A
$\chi_{102}^{(37)}$	-1	-1	/A	/A	A	A	1	1	-A	-A	-1	-1	/A	A	/A	A	/A	A	1	-A	-1	/A	A
$\chi_{102}^{(38)}$	-1	-1	A	A	/A	/A	1	1	-/A	-/A	-1	-1	A	/A	A	/A	A	/A	1	-/A	-1	A	/A
$\chi_{102}^{(39)}$	1	1	-A	-A	-/A	-/A	-1	-1	/A	/A	1	1	A	/A	A	/A	-A	-/A	-1	/A	1	-A	-/A
$\chi_{102}^{(40)}$	1	1	-/A	-/A	-A	-A	-1	-1	A	A	1	1	/A	A	/A	A	-/A	-A	-1	A	1	-/A	-A
$\chi_{102}^{(41)}$	1	1	-/A	-/A	-A	-A	-1	-1	-A	-A	-1	-1	-/A	-A	/A	A	/A	A	1	A	1	-/A	-A
$\chi_{102}^{(42)}$	1	1	-A	-A	-/A	-/A	-1	-1	-/A	-/A	-1	-1	-A	-/A	A	/A	A	/A	1	/A	1	-A	-/A
$\chi_{102}^{(43)}$	-1	-1	A	A	/A	/A	1	1	/A	/A	1	1	-A	-/A	A	/A	-A	-/A	-1	-/A	-1	A	/A
$\chi_{102}^{(44)}$	-1	-1	/A	/A	A	A	1	1	A	A	1	1	-/A	-A	/A	A	-/A	-A	-1	-A	-1	/A	A
$\chi_{102}^{(45)}$	-1	-1	-/A	-/A	-A	-A	-1	-1	-A	-A	-1	-1	/A	A	/A	A	-/A	-A	-1	-A	-1	-/A	-A
$\chi_{102}^{(46)}$	-1	-1	-A	-A	-/A	-/A	-1	-1	-/A	-/A	-1	-1	A	/A	A	/A	-A	-/A	-1	-/A	-1	-A	-/A
$\chi_{102}^{(47)}$	1	1	A	A	/A	/A	1	1	/A	/A	1	1	A	/A	A	/A	A	/A	1	/A	1	A	/A
$\chi_{102}^{(48)}$	1	1	/A	/A	A	A	1	1	A	A	1	1	/A	A	/A	A	/A	A	1	A	1	/A	A
$\chi_{102}^{(49)}$	-1	-1	.	.	.	.	.	.	2	2	-1	-1	-1	2	-1	2	.	.	.	2	-1	.	.
$\chi_{102}^{(50)}$	1	-1	.	.	.	.	.	.	-2	2	1	-1	-1	2	-1	2	.	.	.	2	-1	.	.
$\chi_{102}^{(51)}$	-1	-1	.	.	.	.	.	.	-2	-2	1	1	1	-2	-1	2	.	.	.	2	-1	.	.
$\chi_{102}^{(52)}$	1	-1	.	.	.	.	.	.	2	-2	-1	1	1	-2	-1	2	.	.	.	2	-1	.	.
$\chi_{102}^{(53)}$	-1	1	.	.	.	.	.	.	-2	2	1	-1	1	-2	-1	2	.	.	.	-2	1	.	.
$\chi_{102}^{(54)}$	1	1	.	.	.	.	.	.	2	2	-1	-1	1	-2	-1	2	.	.	.	-2	1	.	.
$\chi_{102}^{(55)}$	-1	1	.	.	.	.	.	.	2	-2	-1	1	-1	2	-1	2	.	.	.	-2	1	.	.
$\chi_{102}^{(56)}$	1	1	.	.	.	.	.	.	-2	-2	1	1	-1	2	-1	2	.	.	.	-2	1	.	.
$\chi_{102}^{(57)}$	.	2	-1	.	-1	.	-1	.	.	2	.	2	2	2	2	2	2	2	2	-1	-1	2	2
$\chi_{102}^{(58)}$	.	2	1	.	1	.	1	.	.	2	.	2	2	2	2	2	-2	-2	-2	-1	-1	-2	-2
$\chi_{102}^{(59)}$	.	2	1	.	1	.	1	.	.	-2	.	-2	-2	-2	2	2	2	2	2	-1	-1	-2	-2
$\chi_{102}^{(60)}$	.	2	-1	.	-1	.	-1	.	.	-2	.	-2	-2	-2	2	2	-2	-2	-2	-1	-1	2	2
$\chi_{102}^{(61)}$	.	-2	-1	.	-1	.	-1	.	.	2	.	2	-2	-2	2	2	-2	-2	-2	1	1	2	2
$\chi_{102}^{(62)}$	.	-2	1	.	1	.	1	.	.	2	.	2	-2	-2	2	2	2	2	2	1	1	-2	-2
$\chi_{102}^{(63)}$	.	-2	1	.	1	.	1	.	.	-2	.	-2	2	2	2	2	-2	-2	-2	1	1	-2	-2
$\chi_{102}^{(64)}$	.	-2	-1	.	-1	.	-1	.	.	-2	.	-2	2	2	2	2	2	2	2	1	1	2	2
$\chi_{102}^{(65)}$	-1	-1	.	.	.	.	.	.	/B	/B	-1	-1	-/A	/B	-/A	/B	.	.	.	/B	-1	.	.
$\chi_{102}^{(66)}$	-1	-1	.	.	.	.	.	.	B	B	-1	-1	-A	B	-A	B	.	.	.	B	-1	.	.
$\chi_{102}^{(67)}$	1	-1	.	.	.	.	.	.	-/B	/B	1	-1	-/A	/B	-/A	/B	.	.	.	/B	-1	.	.
$\chi_{102}^{(68)}$	1	-1	.	.	.	.	.	.	-B	B	1	-1	-A	B	-A	B	.	.	.	B	-1	.	.
$\chi_{102}^{(69)}$	-1	-1	.	.	.	.	.	.	-/B	-/B	1	1	/A	-/B	-/A	/B	.	.	.	/B	-1	.	.
$\chi_{102}^{(70)}$	-1	-1	.	.	.	.	.	.	-B	-B	1	1	A	-B	-A	B	.	.	.	B	-1	.	.
$\chi_{102}^{(71)}$	1	-1	.	.	.	.	.	.	/B	-/B	-1	1	/A	-/B	-/A	/B	.	.	.	/B	-1	.	.
$\chi_{102}^{(72)}$	1	-1	.	.	.	.	.	.	B	-B	-1	1	A	-B	-A	B	.	.	.	B	-1	.	.
$\chi_{102}^{(73)}$	-1	1	.	.	.	.	.	.	-/B	/B	1	-1	/A	-/B	-/A	/B	.	.	.	-/B	1	.	.
$\chi_{102}^{(74)}$	-1	1	.	.	.	.	.	.	-B	B	1	-1	A	-B	-A	B	.	.	.	-B	1	.	.
$\chi_{102}^{(75)}$	1	1	.	.	.	.	.	.	/B	/B	-1	-1	/A	-/B	-/A	/B	.	.	.	-/B	1	.	.

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$\chi_{102}^{(76)}$	1	1	.	.	.	.	.	.	B	B	-1	-1	A	-B	-A	B	.	.	.	-B	1	.	.
$\chi_{102}^{(77)}$	-1	1	.	.	.	.	.	.	/B	-/B	-1	1	-/A	/B	-/A	/B	.	.	.	-/B	1	.	.
$\chi_{102}^{(78)}$	-1	1	.	.	.	.	.	.	B	-B	-1	1	-A	B	-A	B	.	.	.	-B	1	.	.
$\chi_{102}^{(79)}$	1	1	.	.	.	.	.	.	-/B	-/B	1	1	-/A	/B	-/A	/B	.	.	.	-/B	1	.	.
$\chi_{102}^{(80)}$	1	1	.	.	.	.	.	.	-B	-B	1	1	-A	B	-A	B	.	.	.	-B	1	.	.
$\chi_{102}^{(81)}$	.	2	-/A	.	-A	.	-1	.	.	/B	.	2	B	/B	B	/B	B	/B	2	-A	-1	B	/B
$\chi_{102}^{(82)}$	.	2	-A	.	-/A	.	-1	.	.	B	.	2	/B	B	/B	B	/B	B	2	-/A	-1	/B	B
$\chi_{102}^{(83)}$	.	2	/A	.	A	.	1	.	.	/B	.	2	B	/B	B	/B	-B	-/B	-2	-A	-1	-B	-/B
$\chi_{102}^{(84)}$	.	2	A	.	/A	.	1	.	.	B	.	2	/B	B	/B	B	-/B	-B	-2	-/A	-1	-/B	-B
$\chi_{102}^{(85)}$	.	2	/A	.	A	.	1	.	.	-/B	.	-2	-B	-/B	B	/B	B	/B	2	-A	-1	-B	-/B
$\chi_{102}^{(86)}$	.	2	A	.	/A	.	1	.	.	-B	.	-2	-/B	-B	/B	B	/B	B	2	-/A	-1	-/B	-B
$\chi_{102}^{(87)}$	.	2	-/A	.	-A	.	-1	.	.	-/B	.	-2	-B	-/B	B	/B	-B	-/B	-2	-A	-1	B	/B
$\chi_{102}^{(88)}$	.	2	-A	.	-/A	.	-1	.	.	-B	.	-2	-/B	-B	/B	B	-/B	-B	-2	-/A	-1	/B	B
$\chi_{102}^{(89)}$	.	-2	-/A	.	-A	.	-1	.	.	/B	.	2	-B	-/B	B	/B	-B	-/B	-2	A	1	B	/B
$\chi_{102}^{(90)}$	.	-2	-A	.	-/A	.	-1	.	.	B	.	2	-/B	-B	/B	B	-/B	-B	-2	/A	1	/B	B
$\chi_{102}^{(91)}$	.	-2	/A	.	A	.	1	.	.	/B	.	2	-B	-/B	B	/B	B	/B	2	A	1	-B	-/B
$\chi_{102}^{(92)}$	.	-2	A	.	/A	.	1	.	.	B	.	2	-/B	-B	/B	B	/B	B	2	/A	1	-/B	-B
$\chi_{102}^{(93)}$	.	-2	/A	.	A	.	1	.	.	-/B	.	-2	B	/B	B	/B	-B	-/B	-2	A	1	-B	-/B
$\chi_{102}^{(94)}$	.	-2	A	.	/A	.	1	.	.	-B	.	-2	/B	B	/B	B	-/B	-B	-2	/A	1	-/B	-B
$\chi_{102}^{(95)}$	.	-2	-/A	.	-A	.	-1	.	.	-/B	.	-2	B	/B	B	/B	B	/B	2	A	1	B	/B
$\chi_{102}^{(96)}$	.	-2	-A	.	-/A	.	-1	.	.	-B	.	-2	/B	B	/B	B	/B	B	2	/A	1	/B	B
$\chi_{102}^{(97)}$	.	-2	.	.	.	.	.	.	.	4	.	-2	-2	4	-2	4	.	.	.	-2	1	.	.
$\chi_{102}^{(98)}$	.	-2	.	.	.	.	.	.	.	-4	.	2	2	-4	-2	4	.	.	.	-2	1	.	.
$\chi_{102}^{(99)}$	.	2	.	.	.	.	.	.	.	4	.	-2	2	-4	-2	4	.	.	.	2	-1	.	.
$\chi_{102}^{(100)}$	.	2	.	.	.	.	.	.	.	-4	.	2	-2	4	-2	4	.	.	.	2	-1	.	.
$\chi_{102}^{(101)}$	.	-2	.	.	.	.	.	.	.	/C	.	-2	-B	/C	-B	/C	.	.	.	-/B	1	.	.
$\chi_{102}^{(102)}$	.	-2	.	.	.	.	.	.	.	C	.	-2	-/B	C	-/B	C	.	.	.	-B	1	.	.
$\chi_{102}^{(103)}$	.	-2	.	.	.	.	.	.	.	-/C	.	2	B	-/C	-B	/C	.	.	.	-/B	1	.	.
$\chi_{102}^{(104)}$	.	-2	.	.	.	.	.	.	.	-C	.	2	/B	-C	-/B	C	.	.	.	-B	1	.	.
$\chi_{102}^{(105)}$	.	2	.	.	.	.	.	.	.	/C	.	-2	B	-/C	-B	/C	.	.	.	/B	-1	.	.
$\chi_{102}^{(106)}$	.	2	.	.	.	.	.	.	.	C	.	-2	/B	-C	-/B	C	.	.	.	B	-1	.	.
$\chi_{102}^{(107)}$	.	2	.	.	.	.	.	.	.	-/C	.	2	-B	/C	-B	/C	.	.	.	/B	-1	.	.
$\chi_{102}^{(108)}$	.	2	.	.	.	.	.	.	.	-C	.	2	-/B	C	-/B	C	.	.	.	B	-1	.	.

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$\chi_{102}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{102}^{(2)}$	1	1	1	-1	1	1	-1	1	-1	-1	1	-1	-1	-1	1
$\chi_{102}^{(3)}$	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	-1
$\chi_{102}^{(4)}$	1	1	1	1	-1	1	-1	-1	1	-1	1	1	1	1	1
$\chi_{102}^{(5)}$	-1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1
$\chi_{102}^{(6)}$	-1	1	1	-1	1	1	-1	1	-1	-1	1	-1	-1	-1	1
$\chi_{102}^{(7)}$	1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	-1
$\chi_{102}^{(8)}$	-1	1	1	1	-1	1	-1	-1	1	-1	1	1	1	1	1
$\chi_{102}^{(9)}$	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1
$\chi_{102}^{(10)}$	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	-1

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$\chi_{102}^{(11)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1
$\chi_{102}^{(12)}$	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1
$\chi_{102}^{(13)}$	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{102}^{(14)}$	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	-1
$\chi_{102}^{(15)}$	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1
$\chi_{102}^{(16)}$	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1
$\chi_{102}^{(17)}$	1	A	1	-1	1	1	-1	/A	-/A	-/A	/A	-1	-A	-/A	/A
$\chi_{102}^{(18)}$	1	/A	1	-1	1	1	-1	A	-A	-A	A	-1	-/A	-A	A
$\chi_{102}^{(19)}$	-1	-/A	-1	-1	1	1	-1	-A	A	A	-A	-1	-/A	A	-A
$\chi_{102}^{(20)}$	-1	-A	-1	-1	1	1	-1	-/A	/A	/A	-/A	-1	-A	/A	-/A
$\chi_{102}^{(21)}$	1	A	1	1	-1	1	-1	-/A	/A	-/A	/A	1	A	/A	/A
$\chi_{102}^{(22)}$	1	/A	1	1	-1	1	-1	-A	A	-A	A	1	/A	A	A
$\chi_{102}^{(23)}$	-1	-/A	-1	1	-1	1	-1	A	-A	A	-A	1	/A	-A	-A
$\chi_{102}^{(24)}$	-1	-A	-1	1	-1	1	-1	/A	-/A	/A	-/A	1	A	-/A	-/A
$\chi_{102}^{(25)}$	-1	A	1	-1	1	1	-1	/A	-/A	-/A	/A	-1	-A	-/A	/A
$\chi_{102}^{(26)}$	-1	/A	1	-1	1	1	-1	A	-A	-A	A	-1	-/A	-A	A
$\chi_{102}^{(27)}$	1	-/A	-1	-1	1	1	-1	-A	A	A	-A	-1	-/A	A	-A
$\chi_{102}^{(28)}$	1	-A	-1	-1	1	1	-1	-/A	/A	/A	-/A	-1	-A	/A	-/A
$\chi_{102}^{(29)}$	-1	A	1	1	-1	1	-1	-/A	/A	-/A	/A	1	A	/A	/A
$\chi_{102}^{(30)}$	-1	/A	1	1	-1	1	-1	-A	A	-A	A	1	/A	A	A
$\chi_{102}^{(31)}$	1	-/A	-1	1	-1	1	-1	A	-A	A	-A	1	/A	-A	-A
$\chi_{102}^{(32)}$	1	-A	-1	1	-1	1	-1	/A	-/A	/A	-/A	1	A	-/A	-/A
$\chi_{102}^{(33)}$	1	-A	-1	-1	-1	1	1	/A	/A	-/A	-/A	-1	-A	/A	-/A
$\chi_{102}^{(34)}$	1	-/A	-1	-1	-1	1	1	A	A	-A	-A	-1	-/A	A	-A
$\chi_{102}^{(35)}$	-1	/A	1	-1	-1	1	1	-A	-A	A	A	-1	-/A	-A	A
$\chi_{102}^{(36)}$	-1	A	1	-1	-1	1	1	-/A	-/A	/A	/A	-1	-A	-/A	/A
$\chi_{102}^{(37)}$	1	-A	-1	1	1	1	1	-/A	-/A	-/A	-/A	1	A	-/A	-/A
$\chi_{102}^{(38)}$	1	-/A	-1	1	1	1	1	-A	-A	-A	-A	1	/A	-A	-A
$\chi_{102}^{(39)}$	-1	/A	1	1	1	1	1	A	A	A	A	1	/A	A	A
$\chi_{102}^{(40)}$	-1	A	1	1	1	1	1	/A	/A	/A	/A	1	A	/A	/A
$\chi_{102}^{(41)}$	-1	-A	-1	-1	-1	1	1	/A	/A	-/A	-/A	-1	-A	/A	-/A
$\chi_{102}^{(42)}$	-1	-/A	-1	-1	-1	1	1	A	A	-A	-A	-1	-/A	A	-A
$\chi_{102}^{(43)}$	1	/A	1	-1	-1	1	1	-A	-A	A	A	-1	-/A	-A	A
$\chi_{102}^{(44)}$	1	A	1	-1	-1	1	1	-/A	-/A	/A	/A	-1	-A	-/A	/A
$\chi_{102}^{(45)}$	-1	-A	-1	1	1	1	1	-/A	-/A	-/A	-/A	1	A	-/A	-/A
$\chi_{102}^{(46)}$	-1	-/A	-1	1	1	1	1	-A	-A	-A	-A	1	/A	-A	-A
$\chi_{102}^{(47)}$	1	/A	1	1	1	1	1	A	A	A	A	1	/A	A	A
$\chi_{102}^{(48)}$	1	A	1	1	1	1	1	/A	/A	/A	/A	1	A	/A	/A
$\chi_{102}^{(49)}$	.	2	-1	2	2	2	2	2	2	2	2	2	-1	2	2
$\chi_{102}^{(50)}$	.	2	-1	2	-2	2	-2	-2	2	-2	2	2	-1	2	2
$\chi_{102}^{(51)}$	.	-2	1	-2	-2	2	2	2	2	-2	-2	-2	1	2	-2
$\chi_{102}^{(52)}$	.	-2	1	-2	2	2	-2	-2	2	2	-2	-2	1	2	-2
$\chi_{102}^{(53)}$	.	2	-1	-2	2	2	-2	2	-2	-2	2	-2	1	-2	2
$\chi_{102}^{(54)}$	.	2	-1	-2	-2	2	2	-2	-2	2	2	-2	1	-2	2
$\chi_{102}^{(55)}$	.	-2	1	2	-2	2	-2	2	-2	2	-2	2	-1	-2	-2

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$\chi_{102}^{(56)}$	.	-2	1	2	2	2	2	-2	-2	-2	-2	2	-1	-2	-2
$\chi_{102}^{(57)}$	2	-1	-1	-1	.	-1	.	.	2	.	2	2	-1	-1	-1
$\chi_{102}^{(58)}$	-2	-1	-1	-1	.	-1	.	.	2	.	2	2	-1	-1	-1
$\chi_{102}^{(59)}$	-2	1	1	1	.	-1	.	.	2	.	-2	-2	1	-1	1
$\chi_{102}^{(60)}$	2	1	1	1	.	-1	.	.	2	.	-2	-2	1	-1	1
$\chi_{102}^{(61)}$	2	-1	-1	1	.	-1	.	.	-2	.	2	-2	1	1	-1
$\chi_{102}^{(62)}$	-2	-1	-1	1	.	-1	.	.	-2	.	2	-2	1	1	-1
$\chi_{102}^{(63)}$	-2	1	1	-1	.	-1	.	.	-2	.	-2	2	-1	1	1
$\chi_{102}^{(64)}$	2	1	1	-1	.	-1	.	.	-2	.	-2	2	-1	1	1
$\chi_{102}^{(65)}$	.	/B	-1	2	2	2	2	B	B	B	B	2	-A	B	B
$\chi_{102}^{(66)}$	.	B	-1	2	2	2	2	/B	/B	/B	/B	2	-/A	/B	/B
$\chi_{102}^{(67)}$	.	/B	-1	2	-2	2	-2	-B	B	-B	B	2	-A	B	B
$\chi_{102}^{(68)}$	.	B	-1	2	-2	2	-2	-/B	/B	-/B	/B	2	-/A	/B	/B
$\chi_{102}^{(69)}$	.	-/B	1	-2	-2	2	2	B	B	-B	-B	-2	A	B	-B
$\chi_{102}^{(70)}$	.	-B	1	-2	-2	2	2	/B	/B	-/B	-/B	-2	/A	/B	-/B
$\chi_{102}^{(71)}$	.	-/B	1	-2	2	2	-2	-B	B	B	-B	-2	A	B	-B
$\chi_{102}^{(72)}$	.	-B	1	-2	2	2	-2	-/B	/B	/B	-/B	-2	/A	/B	-/B
$\chi_{102}^{(73)}$	.	/B	-1	-2	2	2	-2	B	-B	-B	B	-2	A	-B	B
$\chi_{102}^{(74)}$	.	B	-1	-2	2	2	-2	/B	-/B	-/B	/B	-2	/A	-/B	/B
$\chi_{102}^{(75)}$	.	/B	-1	-2	-2	2	2	-B	-B	B	B	-2	A	-B	B
$\chi_{102}^{(76)}$	.	B	-1	-2	-2	2	2	-/B	-/B	/B	/B	-2	/A	-/B	/B
$\chi_{102}^{(77)}$	.	-/B	1	2	-2	2	-2	B	-B	B	-B	2	-A	-B	-B
$\chi_{102}^{(78)}$	.	-B	1	2	-2	2	-2	/B	-/B	/B	-/B	2	-/A	-/B	-/B
$\chi_{102}^{(79)}$	.	-/B	1	2	2	2	2	-B	-B	-B	-B	2	-A	-B	-B
$\chi_{102}^{(80)}$	.	-B	1	2	2	2	2	-/B	-/B	-/B	-/B	2	-/A	-/B	-/B
$\chi_{102}^{(81)}$	2	-A	-1	-1	.	-1	.	.	B	.	B	2	-A	-/A	-/A
$\chi_{102}^{(82)}$	2	-/A	-1	-1	.	-1	.	.	/B	.	/B	2	-/A	-A	-A
$\chi_{102}^{(83)}$	-2	-A	-1	-1	.	-1	.	.	B	.	B	2	-A	-/A	-/A
$\chi_{102}^{(84)}$	-2	-/A	-1	-1	.	-1	.	.	/B	.	/B	2	-/A	-A	-A
$\chi_{102}^{(85)}$	-2	A	1	1	.	-1	.	.	B	.	-B	-2	A	-/A	/A
$\chi_{102}^{(86)}$	-2	/A	1	1	.	-1	.	.	/B	.	-/B	-2	/A	-A	A
$\chi_{102}^{(87)}$	2	A	1	1	.	-1	.	.	B	.	-B	-2	A	-/A	/A
$\chi_{102}^{(88)}$	2	/A	1	1	.	-1	.	.	/B	.	-/B	-2	/A	-A	A
$\chi_{102}^{(89)}$	2	-A	-1	1	.	-1	.	.	-B	.	B	-2	A	/A	-/A
$\chi_{102}^{(90)}$	2	-/A	-1	1	.	-1	.	.	-/B	.	/B	-2	/A	A	-A
$\chi_{102}^{(91)}$	-2	-A	-1	1	.	-1	.	.	-B	.	B	-2	A	/A	-/A
$\chi_{102}^{(92)}$	-2	-/A	-1	1	.	-1	.	.	-/B	.	/B	-2	/A	A	-A
$\chi_{102}^{(93)}$	-2	A	1	-1	.	-1	.	.	-B	.	-B	2	-A	/A	/A
$\chi_{102}^{(94)}$	-2	/A	1	-1	.	-1	.	.	-/B	.	-/B	2	-/A	A	A
$\chi_{102}^{(95)}$	2	A	1	-1	.	-1	.	.	-B	.	-B	2	-A	/A	/A
$\chi_{102}^{(96)}$	2	/A	1	-1	.	-1	.	.	-/B	.	-/B	2	-/A	A	A
$\chi_{102}^{(97)}$	.	-2	1	-2	.	-2	.	.	4	.	4	4	1	-2	-2
$\chi_{102}^{(98)}$	.	2	-1	2	.	-2	.	.	4	.	-4	-4	-1	-2	2
$\chi_{102}^{(99)}$	.	-2	1	2	.	-2	.	.	-4	.	4	-4	-1	2	-2
$\chi_{102}^{(100)}$	.	2	-1	-2	.	-2	.	.	-4	.	-4	4	1	2	2

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$\chi_{102}^{(101)}$	.	-/B	1	-2	.	-2	.	.	C	.	C	4	A	-B	-B
$\chi_{102}^{(102)}$	.	-B	1	-2	.	-2	.	.	/C	.	/C	4	/A	-/B	-/B
$\chi_{102}^{(103)}$	.	/B	-1	2	.	-2	.	.	C	.	-C	-4	-A	-B	B
$\chi_{102}^{(104)}$	.	B	-1	2	.	-2	.	.	/C	.	-/C	-4	-/A	-/B	/B
$\chi_{102}^{(105)}$	.	-/B	1	2	.	-2	.	.	-C	.	C	-4	-A	B	-B
$\chi_{102}^{(106)}$	.	-B	1	2	.	-2	.	.	-/C	.	/C	-4	-/A	/B	-/B
$\chi_{102}^{(107)}$	.	/B	-1	-2	.	-2	.	.	-C	.	-C	4	A	B	B
$\chi_{102}^{(108)}$	.	B	-1	-2	.	-2	.	.	-/C	.	-/C	4	/A	/B	/B

where A = E(3)^2 = (-1-ER(-3))/2 = -1-b3, B = 2*E(3) = -1+ER(-3) = 2b3, C = 4*E(3) = -2+2*ER(-3) = 4b3.

The generators of G^{s103} are:

$$\begin{pmatrix} 1&0&0&1&-1&0&-1&0\\ 1&0&0&1&-1&1&-3&1\\ 2&-1&0&2&-2&1&-3&1\\ 2&-1&1&2&-2&1&-5&2\\ 2&-1&1&1&-1&1&-4&1\\ 1&-1&1&1&-1&1&-3&1\\ 1&0&1&0&-1&1&-2&1\\ 1&0&0&0&0&0&-1&1 \end{pmatrix}, \begin{pmatrix} 1&-2&0&0&1&-1&1&0\\ 2&-3&-1&1&1&-1&1&0\\ 2&-4&-1&1&2&-2&2&-1\\ 4&-6&-2&2&2&-2&2&-1\\ 3&-5&-2&2&2&-2&1&0\\ 2&-4&-1&1&2&-1&0&0\\ 1&-3&-1&1&1&0&0&0\\ 0&-2&0&1&0&0&0&0 \end{pmatrix}, \begin{pmatrix} -1&-1&0&1&1&-1&-1&0\\ -3&-1&1&1&1&-1&-1&0\\ -3&-1&1&1&2&-2&-2&1\\ -5&-2&1&2&3&-3&-2&1\\ -4&-2&1&2&2&-2&-2&1\\ -3&-1&0&2&1&-1&-2&1\\ -2&0&0&1&1&-1&-1&0\\ -1&0&0&0&1&0&-1&0 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s103} are:

$$\begin{pmatrix} 1&0&0&0&0&0&0&0\\ 0&1&0&0&0&0&0&0\\ 0&0&1&0&0&0&0&0\\ 0&0&0&1&0&0&0&0\\ 0&0&0&0&1&0&0&0\\ 0&0&0&0&0&1&0&0\\ 0&0&0&0&0&0&1&0\\ 0&0&0&0&0&0&0&1 \end{pmatrix}, \begin{pmatrix} -2&-1&0&1&0&1&-1&0\\ -3&-1&0&1&0&1&0&0\\ -4&-1&0&1&1&1&-1&0\\ -5&-2&-1&2&1&2&-1&0\\ -4&-1&-1&2&0&2&-1&0\\ -3&0&-1&1&0&2&-1&0\\ -2&0&-1&1&0&1&0&-1\\ -1&0&0&0&0&1&0&-1 \end{pmatrix}, \begin{pmatrix} -2&-1&1&1&-1&0&0&1\\ -3&-1&2&1&-1&0&-1&2\\ -4&-2&3&1&-1&0&-1&2\\ -6&-3&4&2&-1&-1&-1&3\\ -5&-2&3&2&-1&-1&-1&2\\ -4&-2&2&2&-1&0&-1&1\\ -3&-1&2&1&-1&0&0&0\\ -1&-1&1&1&-1&0&0&0 \end{pmatrix},$$

$$\begin{pmatrix} -2&-1&1&1&-1&1&-1&0\\ -2&-1&2&1&-2&1&-1&0\\ -3&-1&2&1&-2&2&-2&0\\ -5&-1&4&1&-3&2&-2&0\\ -4&0&3&1&-3&2&-2&0\\ -3&0&2&1&-2&1&-1&-1\\ -2&0&2&0&-1&1&-1&-1\\ -1&0&1&0&-1&1&0&-1 \end{pmatrix}, \begin{pmatrix} -2&-1&1&1&-1&1&-1&1\\ -3&0&2&0&-1&1&-1&2\\ -4&-1&3&0&-1&2&-2&2\\ -6&-1&4&0&-1&2&-2&3\\ -5&0&3&0&-1&2&-2&2\\ -4&0&2&0&-1&2&-1&1\\ -3&0&2&0&-1&1&0&0\\ -1&0&1&0&-1&1&0&0 \end{pmatrix}, \begin{pmatrix} -2&0&0&0&0&1&0&0\\ -3&-1&0&1&0&0&1&0\\ -4&0&0&0&1&0&1&0\\ -5&-1&-1&1&1&0&2&0\\ -4&0&-1&1&0&0&2&0\\ -3&0&-1&1&0&0&1&0\\ -2&0&-1&1&0&0&1&-1\\ -1&0&0&0&0&0&1&-1 \end{pmatrix},$$

$$\begin{pmatrix} -2&0&0&1&0&0&-1&0\\ -3&0&1&1&0&-1&0&-1\\ -4&1&1&1&0&-1&-1&0\\ -6&1&1&2&0&-2&0&-1\\ -5&1&1&2&-1&-1&0&-1\\ -3&1&0&2&-1&-1&0&-1\\ -2&1&0&1&0&-1&0&-1\\ -1&1&0&0&0&0&0&-1 \end{pmatrix}, \begin{pmatrix} -2&0&1&0&-1&1&0&0\\ -2&1&2&-1&-2&2&0&0\\ -3&1&2&-1&-2&3&-1&0\\ -5&2&4&-2&-3&4&-1&0\\ -4&2&3&-1&-3&3&-1&0\\ -3&2&2&-1&-2&2&0&-1\\ -2&1&2&-1&-1&1&0&-1\\ -1&0&1&0&-1&1&0&-1 \end{pmatrix}, \begin{pmatrix} -2&0&1&0&-1&1&0&1\\ -3&0&2&0&-1&0&0&2\\ -4&0&3&-1&-1&1&0&2\\ -6&0&4&-1&-1&0&1&3\\ -5&1&3&-1&-1&0&1&2\\ -4&0&2&0&-1&0&1&1\\ -3&0&2&0&-1&0&1&0\\ -1&0&1&0&-1&0&1&0 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 0 & 1 & 0 & -1 & 2 & -1 & 0 \\ -2 & 0 & 2 & 0 & -2 & 3 & -2 & 0 \\ -3 & 0 & 2 & 0 & -2 & 4 & -3 & 0 \\ -5 & 0 & 4 & 0 & -3 & 5 & -4 & 0 \\ -4 & 1 & 3 & 0 & -3 & 4 & -3 & 0 \\ -3 & 1 & 2 & 0 & -2 & 3 & -2 & -1 \\ -2 & 1 & 2 & -1 & -1 & 2 & -1 & -1 \\ -1 & 0 & 1 & 0 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ -3 & 2 & 1 & -1 & 0 & 0 & 1 & -1 \\ -4 & 3 & 1 & -1 & 0 & 0 & 0 & 0 \\ -6 & 4 & 1 & -1 & 0 & 0 & 1 & -1 \\ -5 & 3 & 1 & 0 & -1 & 0 & 1 & -1 \\ -3 & 3 & 0 & 0 & -1 & 0 & 1 & -1 \\ -2 & 2 & 0 & 0 & 0 & -1 & 1 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -3 & 1 & 1 & 0 & 0 & 1 & -1 & -1 \\ -4 & 2 & 1 & 0 & 0 & 1 & -2 & 0 \\ -6 & 2 & 1 & 1 & 0 & 1 & -2 & -1 \\ -5 & 2 & 1 & 1 & -1 & 1 & -1 & -1 \\ -3 & 2 & 0 & 1 & -1 & 1 & -1 & -1 \\ -2 & 2 & 0 & 0 & 0 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -2 & 0 & 1 & 0 & 0 & 0 & 1 \\ -1 & -2 & -1 & 2 & -1 & 0 & 1 & 1 \\ -2 & -3 & -1 & 2 & 0 & 0 & 1 & 1 \\ -2 & -4 & -2 & 3 & -1 & 1 & 1 & 2 \\ -2 & -3 & -2 & 3 & -1 & 1 & 0 & 2 \\ -2 & -2 & -1 & 2 & -1 & 1 & 0 & 1 \\ -1 & -2 & -1 & 2 & -1 & 1 & 0 & 0 \\ -1 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -2 & 0 & 1 & 0 & 1 & -1 & 1 \\ -1 & -3 & -1 & 3 & -1 & 1 & -1 & 1 \\ -2 & -4 & -1 & 3 & 0 & 1 & -1 & 1 \\ -2 & -6 & -2 & 5 & -1 & 2 & -2 & 2 \\ -2 & -4 & -2 & 4 & -1 & 2 & -2 & 2 \\ -2 & -3 & -1 & 3 & -1 & 2 & -2 & 1 \\ -1 & -2 & -1 & 2 & -1 & 2 & -1 & 0 \\ -1 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -2 & 0 & 2 & -1 & 1 & -1 & 0 \\ 0 & -3 & -1 & 3 & -1 & 1 & -1 & 0 \\ -1 & -4 & -1 & 4 & -1 & 1 & -1 & -1 \\ 0 & -6 & -2 & 6 & -2 & 2 & -2 & -1 \\ 0 & -4 & -2 & 5 & -2 & 2 & -2 & -1 \\ 0 & -3 & -1 & 3 & -1 & 2 & -2 & -1 \\ 0 & -2 & -1 & 2 & -1 & 2 & -1 & -1 \\ 0 & -1 & 0 & 1 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -2 & 1 & 1 & 0 & 0 & -1 & 0 \\ -2 & -2 & 2 & 1 & -1 & 1 & -2 & 1 \\ -2 & -3 & 2 & 1 & 0 & 1 & -3 & 1 \\ -4 & -4 & 4 & 1 & 0 & 1 & -4 & 2 \\ -3 & -3 & 3 & 1 & 0 & 1 & -4 & 2 \\ -3 & -2 & 2 & 1 & 0 & 1 & -3 & 1 \\ -2 & -1 & 2 & 0 & 0 & 1 & -2 & 0 \\ -1 & -1 & 1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 0 & 0 & 1 & 0 & 1 \\ -1 & -1 & -1 & 1 & -1 & 2 & 0 & 1 \\ -2 & -2 & -1 & 1 & 0 & 2 & 0 & 1 \\ -2 & -3 & -2 & 2 & -1 & 4 & -1 & 2 \\ -2 & -2 & -2 & 2 & -1 & 3 & -1 & 2 \\ -2 & -1 & -1 & 1 & -1 & 3 & -1 & 1 \\ -1 & -1 & -1 & 1 & -1 & 2 & 0 & 0 \\ -1 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 0 & 1 & 0 & -1 & 1 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \\ -1 & -1 & -1 & 0 & 1 & 1 & -2 & 2 \\ -2 & -1 & 0 & -1 & 1 & 2 & -3 & 3 \\ -2 & -1 & 0 & 0 & 0 & 2 & -3 & 3 \\ -2 & 0 & 0 & 0 & 0 & 1 & -2 & 2 \\ -1 & 0 & 0 & 0 & 0 & 1 & -2 & 1 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 0 & 1 & 1 & -2 & 1 \\ -1 & -2 & 0 & 1 & 0 & 2 & -3 & 1 \\ -1 & -2 & -1 & 1 & 1 & 2 & -4 & 2 \\ -2 & -3 & 0 & 1 & 1 & 3 & -6 & 3 \\ -2 & -2 & 0 & 1 & 0 & 3 & -5 & 3 \\ -2 & -1 & 0 & 1 & 0 & 2 & -4 & 2 \\ -1 & 0 & 0 & 0 & 0 & 2 & -3 & 1 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 0 & 1 & 1 & -1 & 0 \\ -1 & -1 & 0 & 0 & 1 & 1 & 0 & -1 \\ -2 & -1 & 0 & 0 & 2 & 1 & -1 & -1 \\ -2 & -2 & -1 & 1 & 2 & 2 & -1 & -2 \\ -2 & -1 & -1 & 1 & 1 & 2 & -1 & -1 \\ -1 & 0 & -1 & 0 & 1 & 2 & -1 & -1 \\ -1 & 0 & -1 & 0 & 1 & 1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & -1 & 0 & 1 & 0 \\ 0 & -2 & -1 & 2 & -1 & -1 & 2 & 0 \\ -1 & -2 & -1 & 2 & -1 & -1 & 3 & -1 \\ 0 & -3 & -2 & 3 & -2 & -1 & 4 & -1 \\ 0 & -2 & -2 & 3 & -2 & -1 & 3 & -1 \\ 0 & -2 & -1 & 2 & -1 & -1 & 2 & -1 \\ 0 & -2 & -1 & 2 & -1 & 0 & 1 & -1 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 1 & 0 & -1 & 0 & 2 \\ -2 & 0 & 0 & 1 & 0 & -2 & 1 & 2 \\ -3 & -1 & 1 & 1 & 0 & -2 & 1 & 3 \\ -4 & -1 & 0 & 2 & 0 & -3 & 2 & 4 \\ -4 & -1 & 0 & 2 & 0 & -2 & 1 & 3 \\ -3 & -1 & 0 & 2 & -1 & -1 & 1 & 2 \\ -2 & -1 & 0 & 2 & -1 & -1 & 1 & 1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 0 & -1 & 2 \\ -2 & -1 & 0 & 2 & 0 & -1 & -1 & 2 \\ -3 & -2 & 1 & 2 & 0 & -1 & -1 & 3 \\ -4 & -3 & 0 & 4 & 0 & -2 & -1 & 4 \\ -4 & -2 & 0 & 3 & 0 & -1 & -1 & 3 \\ -3 & -2 & 0 & 3 & -1 & 0 & -1 & 2 \\ -2 & -1 & 0 & 2 & -1 & 0 & 0 & 1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 1 & -2 & 0 \\ 0 & -2 & 0 & 1 & 0 & 2 & -3 & 0 \\ 0 & -2 & -1 & 2 & 0 & 2 & -4 & 0 \\ 0 & -3 & 0 & 2 & 0 & 3 & -6 & 0 \\ 0 & -2 & 0 & 2 & -1 & 3 & -5 & 0 \\ 0 & -1 & 0 & 1 & 0 & 2 & -4 & 0 \\ 0 & 0 & 0 & 0 & 0 & 2 & -3 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & -1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 1 & -1 & -1 \\ -2 & -1 & 0 & 2 & -1 & 1 & 0 & -2 \\ -3 & -1 & 0 & 2 & 0 & 1 & -1 & -2 \\ -4 & -2 & -1 & 4 & -1 & 2 & -1 & -3 \\ -3 & -1 & -1 & 3 & -1 & 2 & -1 & -2 \\ -2 & 0 & -1 & 2 & -1 & 2 & -1 & -2 \\ -1 & 0 & -1 & 1 & 0 & 1 & 0 & -2 \\ -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & 1 & -1 & -1 & 0 \\ -3 & -1 & 1 & 1 & 1 & -1 & -1 & 0 \\ -3 & -1 & 1 & 1 & 2 & -2 & -2 & 1 \\ -5 & -2 & 1 & 2 & 3 & -3 & -2 & 1 \\ -4 & -2 & 1 & 2 & 2 & -2 & -2 & 1 \\ -3 & -1 & 0 & 2 & 1 & -1 & -2 & 1 \\ -2 & 0 & 0 & 1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 2 & -2 & 1 & -1 & 1 \\ 0 & -1 & -1 & 3 & -3 & 1 & -1 & 1 \\ -1 & -2 & -1 & 4 & -4 & 2 & -1 & 1 \\ -1 & -2 & -1 & 5 & -6 & 3 & -2 & 2 \\ -1 & -1 & -1 & 4 & -5 & 3 & -2 & 1 \\ -1 & -1 & 0 & 3 & -4 & 2 & -1 & 0 \\ 0 & -1 & 0 & 2 & -3 & 2 & -1 & 0 \\ 0 & 0 & 0 & 1 & -2 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 2 & -2 & 1 & 0 & -1 \\ -1 & -1 & -1 & 3 & -3 & 2 & 0 & -1 \\ -2 & -2 & -1 & 4 & -3 & 2 & 0 & -2 \\ -2 & -3 & -2 & 6 & -5 & 4 & -1 & -2 \\ -1 & -2 & -2 & 5 & -4 & 3 & -1 & -2 \\ -1 & -1 & -1 & 3 & -3 & 3 & -1 & -2 \\ 0 & -1 & -1 & 2 & -2 & 2 & 0 & -2 \\ 0 & -1 & 0 & 1 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 2 & -1 & 0 & -1 & 1 \\ -1 & -1 & 0 & 2 & 0 & -1 & -1 & 1 \\ -2 & -2 & 1 & 3 & -1 & -1 & -1 & 1 \\ -2 & -3 & 0 & 5 & -1 & -2 & -1 & 1 \\ -2 & -2 & 0 & 4 & -1 & -1 & -1 & 0 \\ -1 & -2 & 0 & 3 & -1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 2 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 0 & 1 & -1 & 1 \\ -1 & 0 & 2 & -1 & 0 & 1 & -1 & 1 \\ -2 & -1 & 3 & -1 & 0 & 2 & -2 & 1 \\ -3 & -1 & 4 & -1 & 0 & 2 & -2 & 1 \\ -3 & 0 & 3 & -1 & 0 & 2 & -2 & 1 \\ -2 & 0 & 2 & -1 & 0 & 2 & -1 & 0 \\ -2 & 0 & 2 & -1 & 0 & 1 & 0 & 0 \\ -1 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & -1 & 0 & 0 & -1 \\ -1 & -2 & 2 & 1 & -1 & 0 & -1 & 0 \\ -1 & -2 & 2 & 1 & -1 & 0 & -1 & -1 \\ -2 & -3 & 4 & 1 & -1 & -1 & -1 & -1 \\ -1 & -2 & 3 & 1 & -1 & -1 & -1 & -1 \\ -1 & -2 & 2 & 1 & 0 & -1 & -1 & -1 \\ -1 & -1 & 2 & 0 & 0 & 0 & -1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & -1 & 1 & -1 & 0 \\ -2 & 0 & 2 & 1 & -2 & 1 & -1 & 0 \\ -3 & -1 & 3 & 1 & -2 & 2 & -2 & 0 \\ -5 & -1 & 4 & 2 & -3 & 2 & -2 & 0 \\ -4 & 0 & 3 & 1 & -2 & 2 & -2 & 0 \\ -3 & 0 & 2 & 1 & -2 & 2 & -1 & -1 \\ -2 & 0 & 2 & 0 & -1 & 1 & 0 & -1 \\ -1 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & -1 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & -2 & 2 & 0 & 1 & -2 & 1 \\ -1 & -1 & -3 & 3 & 0 & 0 & -2 & 2 \\ -1 & -2 & -4 & 4 & 0 & 1 & -4 & 3 \\ -1 & -2 & -3 & 4 & -1 & 1 & -3 & 2 \\ -1 & -1 & -2 & 3 & -1 & 1 & -3 & 2 \\ 0 & 0 & -2 & 2 & -1 & 1 & -2 & 1 \\ 0 & 0 & -1 & 1 & 0 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & -1 & 1 & 0 & 1 & -2 & 1 \\ -1 & 0 & -2 & 1 & 0 & 2 & -2 & 1 \\ -1 & 0 & -3 & 2 & 0 & 2 & -3 & 2 \\ -1 & 0 & -4 & 2 & 0 & 4 & -5 & 3 \\ -1 & 0 & -3 & 2 & -1 & 4 & -4 & 2 \\ -1 & 1 & -2 & 1 & -1 & 3 & -3 & 2 \\ 0 & 1 & -2 & 1 & -1 & 2 & -2 & 1 \\ 0 & 1 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & -1 & 2 & -1 & 0 & -1 & 1 \\ -1 & 0 & -2 & 3 & -1 & -1 & 0 & 0 \\ -2 & 0 & -2 & 4 & -2 & -1 & 0 & 1 \\ -2 & 0 & -4 & 6 & -3 & -1 & 0 & 1 \\ -2 & 0 & -3 & 5 & -3 & 0 & 0 & 0 \\ -1 & 0 & -2 & 4 & -3 & 0 & 0 & 0 \\ 0 & 0 & -2 & 3 & -2 & 0 & 0 & 0 \\ 0 & 1 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & -1 & 1 & 0 & 1 & 0 \\ -1 & 0 & 0 & -1 & 1 & -1 & 3 & -1 \\ -2 & 1 & 0 & -2 & 2 & -1 & 3 & -1 \\ -2 & 1 & -1 & -2 & 2 & -1 & 5 & -2 \\ -2 & 1 & -1 & -1 & 1 & -1 & 4 & -1 \\ -1 & 1 & -1 & -1 & 1 & -1 & 3 & -1 \\ -1 & 0 & -1 & 0 & 1 & -1 & 2 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & -1 & 1 & 1 & -1 & 1 \\ -1 & 0 & 0 & -1 & 0 & 3 & -2 & 1 \\ -1 & 0 & -1 & -1 & 1 & 3 & -3 & 2 \\ -2 & 0 & 0 & -2 & 1 & 5 & -5 & 3 \\ -2 & 0 & 0 & -1 & 0 & 4 & -4 & 3 \\ -2 & 1 & 0 & -1 & 0 & 3 & -3 & 2 \\ -1 & 1 & 0 & -1 & 0 & 2 & -2 & 1 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 2 \\ -2 & 1 & 0 & 0 & 0 & 0 & 0 & 2 \\ -3 & 0 & 1 & 0 & 0 & 0 & 0 & 3 \\ -4 & 0 & 0 & 1 & 0 & 0 & 0 & 4 \\ -4 & 0 & 0 & 1 & 0 & 0 & 0 & 3 \\ -3 & 0 & 0 & 1 & -1 & 1 & 0 & 2 \\ -2 & 0 & 0 & 1 & -1 & 0 & 1 & 1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 1 & -1 & -1 & 2 \\ -2 & 1 & 1 & -1 & 1 & -1 & -1 & 2 \\ -2 & 1 & 1 & -1 & 1 & -1 & -2 & 4 \\ -4 & 2 & 2 & -2 & 2 & -2 & -2 & 5 \\ -4 & 1 & 2 & -1 & 1 & -1 & -2 & 4 \\ -3 & 1 & 1 & 0 & 0 & -1 & -1 & 3 \\ -2 & 1 & 1 & 0 & 0 & -1 & -1 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 1 & 0 & -2 & 2 \\ -2 & 0 & 1 & 0 & 1 & 0 & -3 & 2 \\ -2 & 0 & 1 & 0 & 1 & 0 & -4 & 4 \\ -4 & 0 & 2 & 0 & 2 & -1 & -5 & 5 \\ -4 & 0 & 2 & 0 & 1 & 0 & -4 & 4 \\ -3 & 0 & 1 & 1 & 0 & 0 & -3 & 3 \\ -2 & 1 & 1 & 0 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & -2 & 1 & 0 & 1 \\ 0 & 1 & -1 & 1 & -3 & 2 & 0 & 1 \\ -1 & 0 & -1 & 2 & -4 & 3 & 0 & 1 \\ -1 & 1 & -1 & 2 & -6 & 5 & -1 & 2 \\ -1 & 1 & -1 & 2 & -5 & 4 & -1 & 1 \\ -1 & 1 & 0 & 1 & -4 & 3 & 0 & 0 \\ 0 & 0 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 0 & 0 & 1 & -2 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 1 & -2 & 2 & -1 & 1 \\ 0 & 0 & -1 & 2 & -3 & 3 & -2 & 1 \\ -1 & -1 & -1 & 3 & -4 & 4 & -2 & 1 \\ -1 & -1 & -1 & 4 & -6 & 6 & -4 & 2 \\ -1 & 0 & -1 & 3 & -5 & 5 & -3 & 1 \\ -1 & 0 & 0 & 2 & -4 & 4 & -2 & 0 \\ 0 & 0 & 0 & 1 & -3 & 3 & -1 & 0 \\ 0 & 0 & 0 & 1 & -2 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & -1 & -1 & 1 & 1 \\ -1 & 0 & 0 & 1 & 0 & -3 & 2 & 1 \\ -2 & 0 & 1 & 1 & -1 & -3 & 3 & 1 \\ -2 & 0 & 0 & 2 & -1 & -5 & 5 & 1 \\ -2 & 0 & 0 & 2 & -1 & -4 & 4 & 0 \\ -1 & -1 & 0 & 2 & -1 & -3 & 3 & 0 \\ -1 & -1 & 0 & 2 & -1 & -2 & 2 & 0 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & -1 & 0 & -1 & 2 \\ -1 & 0 & 0 & 1 & -1 & 1 & -3 & 3 \\ -1 & -1 & 0 & 2 & -2 & 1 & -3 & 4 \\ -2 & -1 & 1 & 2 & -2 & 1 & -5 & 6 \\ -2 & -1 & 1 & 2 & -2 & 1 & -4 & 4 \\ -2 & -1 & 1 & 2 & -2 & 1 & -3 & 3 \\ -1 & 0 & 1 & 1 & -2 & 1 & -2 & 2 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 & 1 & -2 & 2 \\ -1 & 1 & 0 & 0 & -1 & 2 & -3 & 3 \\ -1 & 0 & 0 & 1 & -2 & 3 & -4 & 4 \\ -2 & 1 & 1 & 0 & -2 & 4 & -6 & 6 \\ -2 & 1 & 1 & 0 & -2 & 4 & -5 & 4 \\ -2 & 1 & 1 & 0 & -2 & 3 & -3 & 3 \\ -1 & 1 & 1 & 0 & -2 & 2 & -2 & 2 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & -1 & 1 & -1 & -1 \\ -1 & 0 & 0 & 1 & -2 & 3 & -2 & -1 \\ -1 & 0 & -1 & 2 & -2 & 3 & -3 & -1 \\ -2 & 0 & 0 & 2 & -3 & 5 & -5 & -1 \\ -1 & 0 & 0 & 2 & -3 & 4 & -4 & -1 \\ -1 & 1 & 0 & 1 & -2 & 3 & -3 & -1 \\ 0 & 1 & 0 & 0 & -1 & 2 & -2 & -1 \\ 0 & 0 & 0 & 0 & 0 & 1 & -1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & 0 & -1 & 0 & -1 \\ -2 & -1 & 1 & 1 & 1 & -2 & 0 & -1 \\ -2 & 0 & 1 & 1 & 1 & -3 & 0 & -1 \\ -3 & -1 & 1 & 2 & 2 & -5 & 1 & -2 \\ -2 & -1 & 1 & 2 & 1 & -4 & 1 & -2 \\ -1 & -1 & 0 & 2 & 1 & -3 & 0 & -1 \\ -1 & 0 & 0 & 1 & 1 & -2 & 0 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 1 & 0 & 0 & -2 & 1 \\ -1 & 0 & 1 & 0 & 1 & 0 & -3 & 1 \\ -1 & 0 & 1 & 1 & 0 & 0 & -4 & 2 \\ -2 & 0 & 2 & 1 & 1 & -1 & -5 & 2 \\ -2 & 0 & 2 & 1 & 0 & 0 & -4 & 1 \\ -1 & 0 & 1 & 1 & 0 & 0 & -3 & 1 \\ -1 & 1 & 1 & 0 & 0 & 0 & -2 & 1 \\ 0 & 1 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 2 & -2 & 0 & 0 & 0 \\ -2 & 1 & 0 & 2 & -2 & 0 & 0 & 0 \\ -3 & 0 & 1 & 3 & -3 & 0 & 0 & 0 \\ -4 & 0 & 0 & 5 & -4 & 0 & 0 & 0 \\ -3 & 0 & 0 & 4 & -3 & 0 & 0 & -1 \\ -2 & 0 & 0 & 3 & -3 & 1 & 0 & -1 \\ -1 & 0 & 0 & 2 & -2 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 0 & 1 & 1 \\ -1 & 1 & 2 & -2 & 0 & -1 & 2 & 1 \\ -2 & 1 & 3 & -3 & 0 & 0 & 2 & 1 \\ -3 & 2 & 4 & -4 & 0 & -1 & 4 & 1 \\ -3 & 2 & 3 & -3 & 0 & -1 & 3 & 1 \\ -2 & 1 & 2 & -2 & 0 & -1 & 3 & 0 \\ -2 & 0 & 2 & -1 & 0 & -1 & 2 & 0 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 2 & -1 & 0 \\ -2 & 0 & 2 & -1 & -1 & 3 & -2 & 1 \\ -2 & 0 & 2 & -2 & 0 & 4 & -3 & 1 \\ -4 & 0 & 4 & -3 & 0 & 5 & -4 & 2 \\ -3 & 1 & 3 & -3 & 0 & 4 & -3 & 2 \\ -3 & 1 & 2 & -2 & 0 & 3 & -2 & 1 \\ -2 & 1 & 2 & -2 & 0 & 2 & -1 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & -1 & 0 & 0 & 1 & -1 & 1 \\ -1 & 0 & -2 & 1 & 0 & 1 & -1 & 1 \\ -1 & 1 & -3 & 1 & 0 & 1 & -1 & 2 \\ -1 & 1 & -4 & 1 & 0 & 2 & -2 & 3 \\ -1 & 1 & -3 & 1 & -1 & 2 & -1 & 2 \\ -1 & 1 & -2 & 1 & -1 & 1 & -1 & 2 \\ 0 & 1 & -2 & 1 & -1 & 1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & -1 & 1 & -1 & 0 & 0 & 1 \\ -1 & 2 & -2 & 1 & -1 & 0 & 1 & 0 \\ -2 & 2 & -2 & 2 & -2 & 0 & 1 & 1 \\ -2 & 3 & -4 & 3 & -3 & 1 & 1 & 1 \\ -2 & 2 & -3 & 3 & -3 & 1 & 1 & 0 \\ -1 & 2 & -2 & 2 & -3 & 1 & 1 & 0 \\ 0 & 1 & -2 & 2 & -2 & 0 & 1 & 0 \\ 0 & 1 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & -1 & 1 & -1 & 1 & -1 & 1 \\ -1 & 1 & -2 & 2 & -1 & 1 & -1 & 0 \\ -2 & 1 & -2 & 3 & -2 & 1 & -1 & 1 \\ -2 & 1 & -4 & 5 & -3 & 2 & -2 & 1 \\ -2 & 1 & -3 & 4 & -3 & 2 & -1 & 0 \\ -1 & 1 & -2 & 3 & -3 & 2 & -1 & 0 \\ 0 & 1 & -2 & 2 & -2 & 1 & 0 & 0 \\ 0 & 1 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 1 & 0 & -1 & 2 \\ -2 & 2 & 1 & -2 & 1 & 1 & -2 & 2 \\ -2 & 2 & 1 & -2 & 1 & 1 & -3 & 4 \\ -4 & 3 & 2 & -3 & 2 & 1 & -4 & 5 \\ -4 & 2 & 2 & -2 & 1 & 1 & -3 & 4 \\ -3 & 2 & 1 & -1 & 0 & 1 & -2 & 3 \\ -2 & 2 & 1 & -1 & 0 & 0 & -1 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 1 & 1 & -1 & 0 \\ -3 & 1 & 1 & -1 & 1 & 1 & -1 & 0 \\ -3 & 2 & 1 & -2 & 2 & 1 & -2 & 1 \\ -5 & 2 & 1 & -2 & 3 & 1 & -2 & 1 \\ -4 & 2 & 1 & -2 & 2 & 1 & -1 & 1 \\ -3 & 2 & 0 & -1 & 1 & 1 & -1 & 1 \\ -2 & 2 & 0 & -1 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & -1 & 2 \\ -1 & 1 & 0 & 0 & -1 & 1 & -2 & 3 \\ -1 & 1 & 0 & 0 & -2 & 2 & -2 & 4 \\ -2 & 2 & 1 & -1 & -2 & 2 & -3 & 6 \\ -2 & 2 & 1 & -1 & -2 & 2 & -2 & 4 \\ -2 & 1 & 1 & 0 & -2 & 1 & -1 & 3 \\ -1 & 1 & 1 & 0 & -2 & 1 & -1 & 2 \\ 0 & 1 & 0 & 0 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & 0 & -1 & 0 & 1 \\ -1 & 1 & 1 & -1 & 1 & -2 & 0 & 1 \\ -1 & 2 & 1 & -1 & 0 & -2 & 0 & 2 \\ -2 & 3 & 2 & -2 & 1 & -4 & 1 & 2 \\ -2 & 2 & 2 & -1 & 0 & -3 & 1 & 1 \\ -1 & 1 & 1 & 0 & 0 & -3 & 1 & 1 \\ -1 & 1 & 1 & 0 & 0 & -2 & 0 & 1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -1 & 0 & -1 & 0 \\ -2 & 2 & 1 & 0 & -1 & 1 & -2 & 0 \\ -2 & 2 & 1 & 1 & -2 & 1 & -3 & 1 \\ -4 & 3 & 2 & 1 & -2 & 1 & -4 & 1 \\ -3 & 2 & 2 & 1 & -2 & 1 & -3 & 0 \\ -2 & 2 & 1 & 1 & -2 & 1 & -2 & 0 \\ -1 & 2 & 1 & 0 & -1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 0 & 2 & -1 & 0 & -1 & 1 \\ 0 & -2 & -1 & 3 & -2 & 1 & -2 & 2 \\ 0 & -4 & -1 & 4 & -2 & 1 & -2 & 2 \\ 0 & -5 & -1 & 5 & -3 & 2 & -4 & 4 \\ 0 & -4 & -1 & 4 & -2 & 2 & -4 & 3 \\ -1 & -3 & 0 & 3 & -2 & 2 & -3 & 2 \\ 0 & -2 & 0 & 2 & -2 & 2 & -2 & 1 \\ 0 & -1 & 0 & 1 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 2 & 0 & -1 & -1 & 1 \\ -1 & -1 & -2 & 3 & 0 & -1 & -1 & 1 \\ -1 & -2 & -2 & 4 & 0 & -2 & -1 & 2 \\ -1 & -3 & -4 & 6 & 0 & -2 & -2 & 3 \\ -1 & -3 & -3 & 5 & 0 & -1 & -2 & 2 \\ -1 & -2 & -2 & 4 & -1 & 0 & -2 & 2 \\ 0 & -1 & -2 & 3 & -1 & 0 & -1 & 1 \\ 0 & 0 & -1 & 1 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & 0 & -2 \\ -1 & -2 & 0 & 2 & 0 & 0 & 0 & -2 \\ -1 & -2 & 0 & 2 & 1 & -1 & 0 & -3 \\ -1 & -4 & -1 & 4 & 1 & -1 & 0 & -4 \\ 0 & -3 & -1 & 3 & 1 & -1 & 0 & -3 \\ 0 & -2 & -1 & 2 & 1 & 0 & -1 & -2 \\ 0 & -1 & -1 & 1 & 1 & 0 & 0 & -2 \\ 0 & -1 & 0 & 0 & 1 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 2 & -2 & 0 & 0 & 0 \\ 1 & -2 & -1 & 3 & -2 & 0 & -1 & 1 \\ 1 & -3 & -1 & 4 & -3 & 0 & 0 & 0 \\ 2 & -4 & -1 & 5 & -4 & 0 & -1 & 1 \\ 2 & -3 & -1 & 4 & -3 & 0 & -1 & 0 \\ 1 & -3 & 0 & 3 & -2 & 0 & -1 & 0 \\ 1 & -2 & 0 & 2 & -2 & 1 & -1 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 1 & -1 & 0 & 0 & -1 \\ -1 & -1 & 2 & 1 & -1 & 0 & -1 & 0 \\ -1 & -2 & 3 & 1 & -1 & 0 & -1 & -1 \\ -2 & -3 & 4 & 2 & -1 & -1 & -1 & -1 \\ -1 & -2 & 3 & 1 & 0 & -1 & -1 & -1 \\ -1 & -2 & 2 & 1 & 0 & 0 & -1 & -1 \\ -1 & -1 & 2 & 0 & 0 & 0 & 0 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 1 & 1 & -2 & 1 \\ 1 & 0 & -2 & 0 & 1 & 2 & -2 & 0 \\ 1 & 0 & -3 & 1 & 1 & 2 & -3 & 1 \\ 2 & 0 & -4 & 1 & 1 & 4 & -5 & 1 \\ 1 & 0 & -3 & 1 & 0 & 4 & -4 & 1 \\ 1 & 1 & -2 & 0 & 0 & 3 & -3 & 1 \\ 1 & 1 & -2 & 0 & 0 & 2 & -2 & 1 \\ 0 & 1 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 1 & 0 & 1 & -2 & 0 \\ 0 & 0 & -2 & 2 & -1 & 2 & -2 & -1 \\ 0 & 0 & -3 & 3 & -1 & 2 & -3 & 0 \\ 0 & 0 & -4 & 4 & -2 & 4 & -5 & 0 \\ 0 & 0 & -3 & 3 & -2 & 4 & -4 & 0 \\ 0 & 1 & -2 & 2 & -2 & 3 & -3 & 0 \\ 1 & 1 & -2 & 1 & -1 & 2 & -2 & 0 \\ 0 & 1 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -1 & -1 & 0 & 0 \\ 0 & -1 & -2 & 3 & 0 & -2 & 0 & 0 \\ 0 & -1 & -2 & 4 & -1 & -3 & 1 & 0 \\ 1 & -2 & -4 & 6 & -1 & -4 & 1 & 0 \\ 1 & -2 & -3 & 5 & -1 & -3 & 1 & -1 \\ 1 & -2 & -2 & 4 & -1 & -2 & 0 & 0 \\ 1 & -1 & -2 & 3 & -1 & -1 & 0 & 0 \\ 1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 2 & -1 & 1 \\ 0 & 0 & -1 & 1 & -2 & 3 & -2 & 2 \\ 0 & -1 & -1 & 1 & -2 & 4 & -2 & 2 \\ 0 & -1 & -1 & 1 & -3 & 6 & -4 & 4 \\ 0 & 0 & -1 & 0 & -2 & 5 & -3 & 3 \\ -1 & 0 & 0 & 0 & -2 & 4 & -2 & 2 \\ 0 & 0 & 0 & 0 & -2 & 3 & -1 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 1 & -2 & 2 \\ 1 & 1 & 0 & -1 & 0 & 2 & -3 & 2 \\ 1 & 0 & 0 & 0 & -1 & 3 & -4 & 3 \\ 1 & 1 & 1 & -1 & -1 & 4 & -6 & 4 \\ 0 & 1 & 1 & -1 & -1 & 4 & -5 & 3 \\ 0 & 1 & 1 & -1 & -1 & 3 & -3 & 2 \\ 0 & 1 & 1 & -1 & -1 & 2 & -2 & 2 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -1 & 1 & -2 & 1 \\ 0 & 1 & 0 & 1 & -2 & 2 & -3 & 1 \\ 0 & 0 & 0 & 2 & -3 & 3 & -4 & 2 \\ -1 & 1 & 1 & 2 & -4 & 4 & -6 & 3 \\ -1 & 1 & 1 & 1 & -3 & 4 & -5 & 2 \\ -1 & 1 & 1 & 1 & -3 & 3 & -3 & 1 \\ 0 & 1 & 1 & 0 & -2 & 2 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & 1 & 2 & -3 & 0 & 2 & 0 & 0 \\ 0 & 1 & 2 & -4 & 1 & 3 & -1 & 0 \\ -1 & 2 & 4 & -6 & 1 & 4 & -1 & 0 \\ -1 & 2 & 3 & -5 & 1 & 3 & -1 & 1 \\ -1 & 2 & 2 & -4 & 1 & 2 & 0 & 0 \\ -1 & 1 & 2 & -3 & 1 & 1 & 0 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & -1 & 1 & 0 & 0 & 1 \\ 1 & 1 & -2 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & -3 & -1 & 1 & 0 & 1 & 1 \\ 2 & 3 & -4 & -2 & 1 & 1 & 1 & 1 \\ 1 & 2 & -3 & -1 & 0 & 1 & 1 & 1 \\ 1 & 2 & -2 & -1 & 0 & 0 & 1 & 1 \\ 1 & 1 & -2 & 0 & 0 & 0 & 0 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 0 & 1 & -1 & 1 \\ -1 & 1 & -2 & 1 & 0 & 1 & -1 & 1 \\ -1 & 1 & -2 & 1 & 0 & 1 & -1 & 2 \\ -1 & 1 & -4 & 2 & 0 & 2 & -2 & 3 \\ -1 & 1 & -3 & 1 & 0 & 2 & -1 & 2 \\ -1 & 1 & -2 & 1 & -1 & 2 & -1 & 2 \\ 0 & 1 & -2 & 1 & -1 & 1 & 0 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -2 & 2 & 0 & 0 & 0 \\ -1 & 2 & 1 & -3 & 2 & 0 & 1 & -1 \\ -1 & 3 & 1 & -4 & 3 & 0 & 0 & 0 \\ -2 & 4 & 1 & -5 & 4 & 0 & 1 & -1 \\ -2 & 3 & 1 & -4 & 3 & 0 & 1 & 0 \\ -1 & 3 & 0 & -3 & 2 & 0 & 1 & 0 \\ -1 & 2 & 0 & -2 & 2 & -1 & 1 & 0 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 0 & 0 & 2 \\ 1 & 2 & 0 & -2 & 0 & 0 & 0 & 2 \\ 1 & 2 & 0 & -2 & -1 & 1 & 0 & 3 \\ 1 & 4 & 1 & -4 & -1 & 1 & 0 & 4 \\ 0 & 3 & 1 & -3 & -1 & 1 & 0 & 3 \\ 0 & 2 & 1 & -2 & -1 & 0 & 1 & 2 \\ 0 & 1 & 1 & -1 & -1 & 0 & 0 & 2 \\ 0 & 1 & 0 & 0 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 0 & 1 & 0 & -1 \\ 1 & -1 & -1 & 1 & -1 & 2 & 0 & -1 \\ 1 & -2 & -1 & 1 & 0 & 2 & 0 & -2 \\ 2 & -3 & -2 & 2 & -1 & 4 & -1 & -2 \\ 2 & -2 & -2 & 1 & 0 & 3 & -1 & -1 \\ 1 & -1 & -1 & 0 & 0 & 3 & -1 & -1 \\ 1 & -1 & -1 & 0 & 0 & 2 & 0 & -1 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & 0 & 0 & -1 & -1 \\ 1 & -1 & -2 & 2 & 0 & 1 & -2 & -1 \\ 2 & -1 & -3 & 3 & 0 & 0 & -2 & -1 \\ 3 & -2 & -4 & 4 & 0 & 1 & -4 & -1 \\ 3 & -2 & -3 & 3 & 0 & 1 & -3 & -1 \\ 2 & -1 & -2 & 2 & 0 & 1 & -3 & 0 \\ 2 & 0 & -2 & 1 & 0 & 1 & -2 & 0 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & -1 & 0 & 1 & 0 & 1 \\ 2 & 1 & -1 & -1 & -1 & 2 & 0 & 1 \\ 2 & 0 & -1 & -1 & -1 & 3 & 0 & 1 \\ 3 & 1 & -1 & -2 & -2 & 5 & -1 & 2 \\ 2 & 1 & -1 & -2 & -1 & 4 & -1 & 2 \\ 1 & 1 & 0 & -2 & -1 & 3 & 0 & 1 \\ 1 & 0 & 0 & -1 & -1 & 2 & 0 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 1 & 1 & -1 & -1 \\ 1 & 0 & 0 & -1 & 0 & 3 & -2 & -1 \\ 2 & 0 & -1 & -1 & 1 & 3 & -3 & -1 \\ 2 & 0 & 0 & -2 & 1 & 5 & -5 & -1 \\ 2 & 0 & 0 & -2 & 1 & 4 & -4 & 0 \\ 1 & 1 & 0 & -2 & 1 & 3 & -3 & 0 \\ 1 & 1 & 0 & -2 & 1 & 2 & -2 & 0 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 0 & 1 & 0 & 0 & 0 & 0 \\ -3 & -2 & 0 & 2 & 0 & 0 & 0 & 0 \\ -4 & -2 & 0 & 2 & 1 & -1 & 0 & 0 \\ -5 & -4 & -1 & 4 & 1 & -1 & 0 & 0 \\ -4 & -3 & -1 & 4 & 0 & -1 & 0 & 0 \\ -3 & -2 & -1 & 3 & 0 & 0 & -1 & 0 \\ -2 & -1 & -1 & 2 & 0 & 0 & 0 & -1 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 1 & -1 & 1 & -3 & 1 \\ 2 & -1 & 0 & 2 & -2 & 1 & -3 & 1 \\ 2 & -1 & 1 & 2 & -2 & 1 & -5 & 2 \\ 2 & -1 & 1 & 1 & -1 & 1 & -4 & 1 \\ 1 & -1 & 1 & 1 & -1 & 1 & -3 & 1 \\ 1 & 0 & 1 & 0 & -1 & 1 & -2 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 1 & 0 & 0 & 1 \\ 1 & 2 & -2 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & -2 & -1 & 1 & 0 & 1 & 1 \\ 2 & 3 & -4 & -1 & 1 & 1 & 1 & 1 \\ 1 & 2 & -3 & -1 & 1 & 1 & 1 & 1 \\ 1 & 2 & -2 & -1 & 0 & 1 & 1 & 1 \\ 1 & 1 & -2 & 0 & 0 & 0 & 1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \\ 0 & 2 & 1 & -2 & 1 & 1 & -2 & 0 \\ 1 & 2 & 1 & -2 & 1 & 1 & -3 & 1 \\ 0 & 3 & 2 & -3 & 2 & 1 & -4 & 1 \\ 0 & 2 & 2 & -3 & 2 & 1 & -3 & 1 \\ 0 & 2 & 1 & -2 & 1 & 1 & -2 & 1 \\ 0 & 2 & 1 & -2 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}.$$

The character table of G^{s103}:

										10										20				
$\chi_{103}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{103}^{(2)}$	1	-1	1	1	1	-1	-1	1	1	1	-1	-1	-1	-1	-1	1	-1	1	1	-1	-1	1	1	1
$\chi_{103}^{(3)}$	1	A	1	-A	-A	/A	A	1	-/A	-/A	-1	/A	/A	-1	A	1	A	-/A	1	-1	-1	-/A	1	-A
$\chi_{103}^{(4)}$	1	/A	1	-/A	-/A	A	/A	1	-A	-A	-1	A	A	-1	/A	1	/A	-A	1	-1	-1	-A	1	-/A
$\chi_{103}^{(5)}$	1	A	-A	-/A	-A	A	/A	-/A	-A	-/A	/A	/A	-1	-1	-1	-/A	-1	1	1	A	-1	1	1	1
$\chi_{103}^{(6)}$	1	/A	-/A	-A	-/A	/A	A	-A	-/A	-A	A	A	-1	-1	-1	-A	-1	1	1	/A	-1	1	1	1
$\chi_{103}^{(7)}$	1	/A	-A	1	-/A	-1	-1	-/A	1	-A	/A	A	/A	-1	A	-/A	A	-/A	1	A	-1	-/A	1	-A
$\chi_{103}^{(8)}$	1	A	-/A	1	-A	-1	-1	-A	1	-/A	A	/A	A	-1	/A	-A	/A	-A	1	/A	-1	-A	1	-/A
$\chi_{103}^{(9)}$	1	-1	-A	-A	1	/A	A	-/A	-/A	1	/A	-1	A	-1	/A	-/A	/A	-A	1	A	-1	-A	1	-/A
$\chi_{103}^{(10)}$	1	-1	-/A	-/A	1	A	/A	-A	-A	1	A	-1	/A	-1	A	-A	A	-/A	1	/A	-1	-/A	1	-A
$\chi_{103}^{(11)}$	1	-A	1	-A	-A	-/A	-A	1	-/A	-/A	1	-/A	-/A	1	-A	1	-A	-/A	1	1	1	-/A	1	-A
$\chi_{103}^{(12)}$	1	-/A	1	-/A	-/A	-A	-/A	1	-A	-A	1	-A	-A	1	-/A	1	-/A	-A	1	1	1	-A	1	-/A
$\chi_{103}^{(13)}$	1	-/A	-/A	-A	-/A	-/A	-A	-A	-/A	-A	-A	-A	1	1	1	-A	1	1	1	-/A	1	1	1	1
$\chi_{103}^{(14)}$	1	-A	-A	-/A	-A	-A	-/A	-/A	-A	-/A	-/A	-/A	1	1	1	-/A	1	1	1	-A	1	1	1	1
$\chi_{103}^{(15)}$	1	1	-/A	-/A	1	-A	-/A	-A	-A	1	-A	1	-/A	1	-A	-A	-A	-/A	1	-/A	1	-/A	1	-A
$\chi_{103}^{(16)}$	1	1	-A	-A	1	-/A	-A	-/A	-/A	1	-/A	1	-A	1	-/A	-/A	-/A	-A	1	-A	1	-A	1	-/A
$\chi_{103}^{(17)}$	1	-A	-/A	1	-A	1	1	-A	1	-/A	-A	-/A	-A	1	-/A	-A	-/A	-A	1	-/A	1	-A	1	-/A
$\chi_{103}^{(18)}$	1	-/A	-A	1	-/A	1	1	-/A	1	-A	-/A	-A	-/A	1	-A	-/A	-A	-/A	1	-A	1	-/A	1	-A
$\chi_{103}^{(19)}$	1	B	-1	1	-1	B	-B	1	-1	1	-B	-B	-B	-B	-B	1	-B	-1	-1	B	-B	1	1	-1
$\chi_{103}^{(20)}$	1	-B	-1	1	-1	-B	B	1	-1	1	B	B	B	B	B	1	B	-1	-1	-B	B	1	1	-1
$\chi_{103}^{(21)}$	1	C	-1	-A	A	-/C	-C	1	/A	-/A	-B	/C	/C	-B	-C	1	-C	/A	-1	B	-B	-/A	1	A
$\chi_{103}^{(22)}$	1	-/C	-1	-/A	/A	C	/C	1	A	-A	-B	-C	-C	-B	/C	1	/C	A	-1	B	-B	-A	1	/A
$\chi_{103}^{(23)}$	1	-C	-1	-A	A	/C	C	1	/A	-/A	B	-/C	-/C	B	C	1	C	/A	-1	-B	B	-/A	1	A
$\chi_{103}^{(24)}$	1	/C	-1	-/A	/A	-C	-/C	1	A	-A	B	C	C	B	-/C	1	-/C	A	-1	-B	B	-A	1	/A
$\chi_{103}^{(25)}$	1	C	A	-/A	A	C	/C	-/A	A	-/A	/C	/C	-B	-B	-B	-/A	-B	-1	-1	C	-B	1	1	-1
$\chi_{103}^{(26)}$	1	-/C	/A	-A	/A	-/C	-C	-A	/A	-A	-C	-C	-B	-B	-B	-A	-B	-1	-1	-/C	-B	1	1	-1
$\chi_{103}^{(27)}$	1	/C	/A	-A	/A	/C	C	-A	/A	-A	C	C	B	B	B	-A	B	-1	-1	/C	B	1	1	-1
$\chi_{103}^{(28)}$	1	-C	A	-/A	A	-C	-/C	-/A	A	-/A	-/C	-/C	B	B	B	-/A	B	-1	-1	-C	B	1	1	-1
$\chi_{103}^{(29)}$	1	-/C	A	1	/A	B	-B	-/A	-1	-A	/C	-C	/C	-B	-C	-/A	-C	/A	-1	C	-B	-/A	1	A
$\chi_{103}^{(30)}$	1	C	/A	1	A	B	-B	-A	-1	-/A	-C	/C	-C	-B	/C	-A	/C	A	-1	-/C	-B	-A	1	/A
$\chi_{103}^{(31)}$	1	-C	/A	1	A	-B	B	-A	-1	-/A	C	-/C	C	B	-/C	-A	-/C	A	-1	/C	B	-A	1	/A
$\chi_{103}^{(32)}$	1	/C	A	1	/A	-B	B	-/A	-1	-A	-/C	C	-/C	B	C	-/A	C	/A	-1	-C	B	-/A	1	A
$\chi_{103}^{(33)}$	1	B	A	-A	-1	-/C	-C	-/A	/A	1	/C	-B	-C	-B	/C	-/A	/C	A	-1	C	-B	-A	1	/A
$\chi_{103}^{(34)}$	1	B	/A	-/A	-1	C	/C	-A	A	1	-C	-B	/C	-B	-C	-A	-C	/A	-1	-/C	-B	-/A	1	A
$\chi_{103}^{(35)}$	1	-B	/A	-/A	-1	-C	-/C	-A	A	1	C	B	-/C	B	C	-A	C	/A	-1	/C	B	-/A	1	A
$\chi_{103}^{(36)}$	1	-B	A	-A	-1	/C	C	-/A	/A	1	-/C	B	C	B	-/C	-/A	-/C	A	-1	-C	B	-A	1	/A
$\chi_{103}^{(37)}$	2	.	1	-1	.	-1	-1	1	-1	.	1	.	1	.	1	-1	-1	1	.	-1	-2	1	.	1
$\chi_{103}^{(38)}$	2	.	1	-1	.	1	1	1	-1	.	-1	.	-1	.	-1	-1	1	1	.	1	2	1	.	1
$\chi_{103}^{(39)}$	2	.	-A	A	.	/A	A	-/A	/A	.	-/A	.	-A	.	-/A	/A	/A	-A	.	A	-2	-A	.	-/A
$\chi_{103}^{(40)}$	2	.	-/A	/A	.	A	/A	-A	A	.	-A	.	-/A	.	-A	A	A	-/A	.	/A	-2	-/A	.	-A
$\chi_{103}^{(41)}$	2	.	-/A	-1	.	-1	-1	-A	-1	.	-A	.	-A	.	-/A	A	/A	-A	.	/A	-2	-A	.	-/A
$\chi_{103}^{(42)}$	2	.	-A	-1	.	-1	-1	-/A	-1	.	-/A	.	-/A	.	-A	/A	A	-/A	.	A	-2	-/A	.	-A
$\chi_{103}^{(43)}$	2	.	-A	/A	.	A	/A	-/A	A	.	-/A	.	1	.	1	/A	-1	1	.	A	-2	1	.	1
$\chi_{103}^{(44)}$	2	.	-/A	A	.	/A	A	-A	/A	.	-A	.	1	.	1	A	-1	1	.	/A	-2	1	.	1
$\chi_{103}^{(45)}$	2	.	1	A	.	/A	A	1	/A	.	1	.	-/A	.	-A	-1	A	-/A	.	-1	-2	-/A	.	-A

									10												20				
$\chi_{103}^{(46)}$	2	.	1	/A	.	A	/A	1	A	.	1	.	-A	.	-/A	-1	/A	-A	.	-1	-2	-A	.	-/A
$\chi_{103}^{(47)}$	2	.	-A	A	.	-/A	-A	-/A	/A	.	/A	.	A	.	/A	/A	-/A	-A	.	-A	2	-A	.	-/A
$\chi_{103}^{(48)}$	2	.	-/A	/A	.	-A	-/A	-A	A	.	A	.	/A	.	A	A	-A	-/A	.	-/A	2	-/A	.	-A
$\chi_{103}^{(49)}$	2	.	-/A	-1	.	1	1	-A	-1	.	A	.	A	.	/A	A	-/A	-A	.	-/A	2	-A	.	-/A
$\chi_{103}^{(50)}$	2	.	-A	-1	.	1	1	-/A	-1	.	/A	.	/A	.	A	/A	-A	-/A	.	-A	2	-/A	.	-A
$\chi_{103}^{(51)}$	2	.	-A	/A	.	-A	-/A	-/A	A	.	/A	.	-1	.	-1	/A	1	1	.	-A	2	1	.	1
$\chi_{103}^{(52)}$	2	.	-/A	A	.	-/A	-A	-A	/A	.	A	.	-1	.	-1	A	1	1	.	-/A	2	1	.	1
$\chi_{103}^{(53)}$	2	.	1	A	.	-/A	-A	1	/A	.	-1	.	/A	.	A	-1	-A	-/A	.	1	2	-/A	.	-A
$\chi_{103}^{(54)}$	2	.	1	/A	.	-A	-/A	1	A	.	-1	.	A	.	/A	-1	-/A	-A	.	1	2	-A	.	-/A
$\chi_{103}^{(55)}$	2	.	A	A	.	-/C	-C	-/A	-/A	.	-/C	.	C	.	-/C	/A	/C	A	.	C	D	-A	.	/A
$\chi_{103}^{(56)}$	2	.	/A	/A	.	C	/C	-A	-A	.	C	.	-/C	.	C	A	-C	/A	.	-/C	D	-/A	.	A
$\chi_{103}^{(57)}$	2	.	A	A	.	/C	C	-/A	-/A	.	/C	.	-C	.	/C	/A	-/C	A	.	-C	-D	-A	.	/A
$\chi_{103}^{(58)}$	2	.	/A	/A	.	-C	-/C	-A	-A	.	-C	.	/C	.	-C	A	C	/A	.	/C	-D	-/A	.	A
$\chi_{103}^{(59)}$	2	.	-1	-1	.	B	-B	1	1	.	B	.	B	.	B	-1	-B	-1	.	B	D	1	.	-1
$\chi_{103}^{(60)}$	2	.	-1	-1	.	-B	B	1	1	.	-B	.	-B	.	-B	-1	B	-1	.	-B	-D	1	.	-1
$\chi_{103}^{(61)}$	2	.	/A	-1	.	B	-B	-A	1	.	C	.	C	.	-/C	A	/C	A	.	-/C	D	-A	.	/A
$\chi_{103}^{(62)}$	2	.	A	-1	.	B	-B	-/A	1	.	-/C	.	-/C	.	C	/A	-C	/A	.	C	D	-/A	.	A
$\chi_{103}^{(63)}$	2	.	/A	-1	.	-B	B	-A	1	.	-C	.	-C	.	/C	A	-/C	A	.	/C	-D	-A	.	/A
$\chi_{103}^{(64)}$	2	.	A	-1	.	-B	B	-/A	1	.	/C	.	/C	.	-C	/A	C	/A	.	-C	-D	-/A	.	A
$\chi_{103}^{(65)}$	2	.	A	/A	.	C	/C	-/A	-A	.	-/C	.	B	.	B	/A	-B	-1	.	C	D	1	.	-1
$\chi_{103}^{(66)}$	2	.	/A	A	.	-/C	-C	-A	-/A	.	C	.	B	.	B	A	-B	-1	.	-/C	D	1	.	-1
$\chi_{103}^{(67)}$	2	.	A	/A	.	-C	-/C	-/A	-A	.	/C	.	-B	.	-B	/A	B	-1	.	-C	-D	1	.	-1
$\chi_{103}^{(68)}$	2	.	/A	A	.	/C	C	-A	-/A	.	-C	.	-B	.	-B	A	B	-1	.	/C	-D	1	.	-1
$\chi_{103}^{(69)}$	2	.	-1	A	.	-/C	-C	1	-/A	.	B	.	-/C	.	C	-1	-C	/A	.	B	D	-/A	.	A
$\chi_{103}^{(70)}$	2	.	-1	/A	.	C	/C	1	-A	.	B	.	C	.	-/C	-1	/C	A	.	B	D	-A	.	/A
$\chi_{103}^{(71)}$	2	.	-1	A	.	/C	C	1	-/A	.	-B	.	/C	.	-C	-1	C	/A	.	-B	-D	-/A	.	A
$\chi_{103}^{(72)}$	2	.	-1	/A	.	-C	-/C	1	-A	.	-B	.	-C	.	/C	-1	-/C	A	.	-B	-D	-A	.	/A
$\chi_{103}^{(73)}$	3	-1	.	.	-1	.	.	.	.	-1	.	-1	.	-1	.	.	.	.	-1	.	3	.	-1	.
$\chi_{103}^{(74)}$	3	1	.	.	-1	.	.	.	.	-1	.	1	.	1	.	.	.	.	-1	.	-3	.	-1	.
$\chi_{103}^{(75)}$	3	A	.	.	A	.	.	.	.	/A	.	/A	.	-1	.	.	.	.	-1	.	3	.	-1	.
$\chi_{103}^{(76)}$	3	/A	.	.	/A	.	.	.	.	A	.	A	.	-1	.	.	.	.	-1	.	3	.	-1	.
$\chi_{103}^{(77)}$	3	-A	.	.	A	.	.	.	.	/A	.	-/A	.	1	.	.	.	.	-1	.	-3	.	-1	.
$\chi_{103}^{(78)}$	3	-/A	.	.	/A	.	.	.	.	A	.	-A	.	1	.	.	.	.	-1	.	-3	.	-1	.
$\chi_{103}^{(79)}$	3	B	.	.	1	.	.	.	.	-1	.	-B	.	-B	.	.	.	.	1	.	E	.	-1	.
$\chi_{103}^{(80)}$	3	-B	.	.	1	.	.	.	.	-1	.	B	.	B	.	.	.	.	1	.	-E	.	-1	.
$\chi_{103}^{(81)}$	3	C	.	.	-A	.	.	.	.	/A	.	/C	.	-B	.	.	.	.	1	.	E	.	-1	.
$\chi_{103}^{(82)}$	3	-/C	.	.	-/A	.	.	.	.	A	.	-C	.	-B	.	.	.	.	1	.	E	.	-1	.
$\chi_{103}^{(83)}$	3	-C	.	.	-A	.	.	.	.	/A	.	-/C	.	B	.	.	.	.	1	.	-E	.	-1	.
$\chi_{103}^{(84)}$	3	/C	.	.	-/A	.	.	.	.	A	.	C	.	B	.	.	.	.	1	.	-E	.	-1	.

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$\chi_{103}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{103}^{(2)}$	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	1	1	1	-1	-1	-1	-1	1	-1	-1	1
$\chi_{103}^{(3)}$	/A	-1	A	/A	-A	1	-/A	-/A	1	-A	-A	A	-A	1	-A	/A	-1	-1	/A	1	-1	A	-/A
$\chi_{103}^{(4)}$	A	-1	/A	A	-/A	1	-A	-A	1	-/A	-/A	/A	-/A	1	-/A	A	-1	-1	A	1	-1	/A	-A
$\chi_{103}^{(5)}$	A	/A	/A	-1	1	-A	-/A	-A	-A	-A	-/A	A	1	1	1	-1	-1	/A	/A	1	A	A	1
$\chi_{103}^{(6)}$	/A	A	A	-1	1	-/A	-A	-/A	-/A	-/A	-A	/A	1	1	1	-1	-1	A	A	1	/A	/A	1
$\chi_{103}^{(7)}$	-1	/A	-1	/A	-A	-A	-A	1	-A	-/A	1	/A	-A	1	-A	/A	-1	/A	A	1	A	/A	-/A
$\chi_{103}^{(8)}$	-1	A	-1	A	-/A	-/A	-/A	1	-/A	-A	1	A	-/A	1	-/A	A	-1	A	/A	1	/A	A	-A
$\chi_{103}^{(9)}$	/A	/A	A	A	-/A	-A	1	-/A	-A	1	-A	-1	-/A	1	-/A	A	-1	/A	-1	1	A	-1	-A
$\chi_{103}^{(10)}$	A	A	/A	/A	-A	-/A	1	-A	-/A	1	-/A	-1	-A	1	-A	/A	-1	A	-1	1	/A	-1	-/A
$\chi_{103}^{(11)}$	-/A	1	-A	-/A	-A	1	-/A	-/A	1	-A	-A	-A	-A	1	-A	-/A	1	1	-/A	1	1	-A	-/A
$\chi_{103}^{(12)}$	-A	1	-/A	-A	-/A	1	-A	-A	1	-/A	-/A	-/A	-/A	1	-/A	-A	1	1	-A	1	1	-/A	-A
$\chi_{103}^{(13)}$	-/A	-A	-A	1	1	-/A	-A	-/A	-/A	-/A	-A	-/A	1	1	1	1	1	-A	-A	1	-/A	-/A	1
$\chi_{103}^{(14)}$	-A	-/A	-/A	1	1	-A	-/A	-A	-A	-A	-/A	-A	1	1	1	1	1	-/A	-/A	1	-A	-A	1
$\chi_{103}^{(15)}$	-A	-A	-/A	-/A	-A	-/A	1	-A	-/A	1	-/A	1	-A	1	-A	-/A	1	-A	1	1	-/A	1	-/A
$\chi_{103}^{(16)}$	-/A	-/A	-A	-A	-/A	-A	1	-/A	-A	1	-A	1	-/A	1	-/A	-A	1	-/A	1	1	-A	1	-A
$\chi_{103}^{(17)}$	1	-A	1	-A	-/A	-/A	-/A	1	-/A	-A	1	-A	-/A	1	-/A	-A	1	-A	-/A	1	-/A	-A	-A
$\chi_{103}^{(18)}$	1	-/A	1	-/A	-A	-A	-A	1	-A	-/A	1	-/A	-A	1	-A	-/A	1	-/A	-A	1	-A	-/A	-/A
$\chi_{103}^{(19)}$	B	-B	B	-B	1	-1	1	-1	1	1	-1	B	-1	-1	1	B	B	B	B	1	-B	-B	-1
$\chi_{103}^{(20)}$	-B	B	-B	B	1	-1	1	-1	1	1	-1	-B	-1	-1	1	-B	-B	-B	-B	1	B	B	-1
$\chi_{103}^{(21)}$	-/C	-B	C	/C	-A	-1	-/A	/A	1	-A	A	C	A	-1	-A	-/C	B	B	-/C	1	-B	-C	/A
$\chi_{103}^{(22)}$	C	-B	-/C	-C	-/A	-1	-A	A	1	-/A	/A	-/C	/A	-1	-/A	C	B	B	C	1	-B	/C	A
$\chi_{103}^{(23)}$	/C	B	-C	-/C	-A	-1	-/A	/A	1	-A	A	-C	A	-1	-A	/C	-B	-B	/C	1	B	C	/A
$\chi_{103}^{(24)}$	-C	B	/C	C	-/A	-1	-A	A	1	-/A	/A	/C	/A	-1	-/A	-C	-B	-B	-C	1	B	-/C	A
$\chi_{103}^{(25)}$	C	/C	-/C	-B	1	A	-/A	A	-A	-A	/A	C	-1	-1	1	B	B	-/C	-/C	1	-C	-C	-1
$\chi_{103}^{(26)}$	-/C	-C	C	-B	1	/A	-A	/A	-/A	-/A	A	-/C	-1	-1	1	B	B	C	C	1	/C	/C	-1
$\chi_{103}^{(27)}$	/C	C	-C	B	1	/A	-A	/A	-/A	-/A	A	/C	-1	-1	1	-B	-B	-C	-C	1	-/C	-/C	-1
$\chi_{103}^{(28)}$	-C	-/C	/C	B	1	A	-/A	A	-A	-A	/A	-C	-1	-1	1	-B	-B	/C	/C	1	C	C	-1
$\chi_{103}^{(29)}$	B	/C	B	/C	-A	A	-A	-1	-A	-/A	-1	-/C	A	-1	-A	-/C	B	-/C	C	1	-C	/C	/A
$\chi_{103}^{(30)}$	B	-C	B	-C	-/A	/A	-/A	-1	-/A	-A	-1	C	/A	-1	-/A	C	B	C	-/C	1	/C	-C	A
$\chi_{103}^{(31)}$	-B	C	-B	C	-/A	/A	-/A	-1	-/A	-A	-1	-C	/A	-1	-/A	-C	-B	-C	/C	1	-/C	C	A
$\chi_{103}^{(32)}$	-B	-/C	-B	-/C	-A	A	-A	-1	-A	-/A	-1	/C	A	-1	-A	/C	-B	/C	-C	1	C	-/C	/A
$\chi_{103}^{(33)}$	-/C	/C	C	-C	-/A	A	1	/A	-A	1	A	B	/A	-1	-/A	C	B	-/C	B	1	-C	-B	A
$\chi_{103}^{(34)}$	C	-C	-/C	/C	-A	/A	1	A	-/A	1	/A	B	A	-1	-A	-/C	B	C	B	1	/C	-B	/A
$\chi_{103}^{(35)}$	-C	C	/C	-/C	-A	/A	1	A	-/A	1	/A	-B	A	-1	-A	/C	-B	-C	-B	1	-/C	B	/A
$\chi_{103}^{(36)}$	/C	-/C	-C	C	-/A	A	1	/A	-A	1	A	-B	/A	-1	-/A	-C	-B	/C	-B	1	C	B	A
$\chi_{103}^{(37)}$	1	-1	-1	-1	1	-1	2	1	1	.	-1	2	-1	-2	-1	1	.	1	.	-2	1	.	-1
$\chi_{103}^{(38)}$	-1	1	1	1	1	-1	2	1	1	.	-1	-2	-1	-2	-1	-1	.	-1	.	-2	-1	.	-1
$\chi_{103}^{(39)}$	-/A	/A	A	A	-/A	A	2	-/A	-A	.	A	2	/A	-2	/A	-A	.	-/A	.	-2	-A	.	A
$\chi_{103}^{(40)}$	-A	A	/A	/A	-A	/A	2	-A	-/A	.	/A	2	A	-2	A	-/A	.	-A	.	-2	-/A	.	/A
$\chi_{103}^{(41)}$	1	A	-1	A	-/A	/A	F	1	-/A	.	-1	/F	/A	-2	/A	-A	.	-A	.	-2	-/A	.	A
$\chi_{103}^{(42)}$	1	/A	-1	/A	-A	A	/F	1	-A	.	-1	F	A	-2	A	-/A	.	-/A	.	-2	-A	.	/A
$\chi_{103}^{(43)}$	-A	/A	/A	-1	1	A	F	-A	-A	.	/A	/F	-1	-2	-1	1	.	-/A	.	-2	-A	.	-1
$\chi_{103}^{(44)}$	-/A	A	A	-1	1	/A	/F	-/A	-/A	.	A	F	-1	-2	-1	1	.	-A	.	-2	-/A	.	-1
$\chi_{103}^{(45)}$	-/A	-1	A	/A	-A	-1	F	-/A	1	.	A	/F	A	-2	A	-/A	.	1	.	-2	1	.	/A

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$\chi_{103}^{(46)}$	-A	-1	/A	A	-/A	-1	/F	-A	1	.	/A	F	/A	-2	/A	-A	.	1	.	-2	1	.	A
$\chi_{103}^{(47)}$	/A	-/A	-A	-A	-/A	A	2	-/A	-A	.	A	-2	/A	-2	/A	A	.	/A	.	-2	A	.	A
$\chi_{103}^{(48)}$	A	-A	-/A	-/A	-A	/A	2	-A	-/A	.	/A	-2	A	-2	A	/A	.	A	.	-2	/A	.	/A
$\chi_{103}^{(49)}$	-1	-A	1	-A	-/A	/A	F	1	-/A	.	-1	-/F	/A	-2	/A	A	.	A	.	-2	/A	.	A
$\chi_{103}^{(50)}$	-1	-/A	1	-/A	-A	A	/F	1	-A	.	-1	-F	A	-2	A	/A	.	/A	.	-2	A	.	/A
$\chi_{103}^{(51)}$	A	-/A	-/A	1	1	A	F	-A	-A	.	/A	-/F	-1	-2	-1	-1	.	/A	.	-2	A	.	-1
$\chi_{103}^{(52)}$	/A	-A	-A	1	1	/A	/F	-/A	-/A	.	A	-F	-1	-2	-1	-1	.	A	.	-2	/A	.	-1
$\chi_{103}^{(53)}$	/A	1	-A	-/A	-A	-1	F	-/A	1	.	A	-/F	A	-2	A	/A	.	-1	.	-2	-1	.	/A
$\chi_{103}^{(54)}$	A	1	-/A	-A	-/A	-1	/F	-A	1	.	/A	-F	/A	-2	/A	A	.	-1	.	-2	-1	.	A
$\chi_{103}^{(55)}$	/C	/C	C	-C	-/A	-A	2	/A	-A	.	-A	D	-/A	2	/A	-C	.	/C	.	-2	C	.	-A
$\chi_{103}^{(56)}$	-C	-C	-/C	/C	-A	-/A	2	A	-/A	.	-/A	D	-A	2	A	/C	.	-C	.	-2	-/C	.	-/A
$\chi_{103}^{(57)}$	-/C	-/C	-C	C	-/A	-A	2	/A	-A	.	-A	-D	-/A	2	/A	C	.	-/C	.	-2	-C	.	-A
$\chi_{103}^{(58)}$	C	C	/C	-/C	-A	-/A	2	A	-/A	.	-/A	-D	-A	2	A	-/C	.	C	.	-2	/C	.	-/A
$\chi_{103}^{(59)}$	-B	-B	B	-B	1	1	2	-1	1	.	1	D	1	2	-1	-B	.	-B	.	-2	B	.	1
$\chi_{103}^{(60)}$	B	B	-B	B	1	1	2	-1	1	.	1	-D	1	2	-1	B	.	B	.	-2	-B	.	1
$\chi_{103}^{(61)}$	-B	-C	B	-C	-/A	-/A	F	-1	-/A	.	1	H	-/A	2	/A	-C	.	-C	.	-2	-/C	.	-A
$\chi_{103}^{(62)}$	-B	/C	B	/C	-A	-A	/F	-1	-A	.	1	-/H	-A	2	A	/C	.	/C	.	-2	C	.	-/A
$\chi_{103}^{(63)}$	B	C	-B	C	-/A	-/A	F	-1	-/A	.	1	-H	-/A	2	/A	C	.	C	.	-2	/C	.	-A
$\chi_{103}^{(64)}$	B	-/C	-B	-/C	-A	-A	/F	-1	-A	.	1	/H	-A	2	A	-/C	.	-/C	.	-2	-C	.	-/A
$\chi_{103}^{(65)}$	-C	/C	-/C	-B	1	-A	F	A	-A	.	-/A	H	1	2	-1	-B	.	/C	.	-2	C	.	1
$\chi_{103}^{(66)}$	/C	-C	C	-B	1	-/A	/F	/A	-/A	.	-A	-/H	1	2	-1	-B	.	-C	.	-2	-/C	.	1
$\chi_{103}^{(67)}$	C	-/C	/C	B	1	-A	F	A	-A	.	-/A	-H	1	2	-1	B	.	-/C	.	-2	-C	.	1
$\chi_{103}^{(68)}$	-/C	C	-C	B	1	-/A	/F	/A	-/A	.	-A	/H	1	2	-1	B	.	C	.	-2	/C	.	1
$\chi_{103}^{(69)}$	/C	-B	C	/C	-A	1	F	/A	1	.	-A	H	-A	2	A	/C	.	-B	.	-2	B	.	-/A
$\chi_{103}^{(70)}$	-C	-B	-/C	-C	-/A	1	/F	A	1	.	-/A	-/H	-/A	2	/A	-C	.	-B	.	-2	B	.	-A
$\chi_{103}^{(71)}$	-/C	B	-C	-/C	-A	1	F	/A	1	.	-A	-H	-A	2	A	-/C	.	B	.	-2	-B	.	-/A
$\chi_{103}^{(72)}$	C	B	/C	C	-/A	1	/F	A	1	.	-/A	/H	-/A	2	/A	C	.	B	.	-2	-B	.	-A
$\chi_{103}^{(73)}$	.	.	.	.	.	.	3	.	.	-1	.	3	.	3	.	.	-1	.	-1	3	.	-1	.
$\chi_{103}^{(74)}$	.	.	.	.	.	.	3	.	.	-1	.	-3	.	3	.	.	1	.	1	3	.	1	.
$\chi_{103}^{(75)}$	.	.	.	.	.	.	G	.	.	A	.	/G	.	3	.	.	-1	.	/A	3	.	A	.
$\chi_{103}^{(76)}$	.	.	.	.	.	.	/G	.	.	/A	.	G	.	3	.	.	-1	.	A	3	.	/A	.
$\chi_{103}^{(77)}$	.	.	.	.	.	.	G	.	.	A	.	-/G	.	3	.	.	1	.	-/A	3	.	-A	.
$\chi_{103}^{(78)}$	.	.	.	.	.	.	/G	.	.	/A	.	-G	.	3	.	.	1	.	-A	3	.	-/A	.
$\chi_{103}^{(79)}$	.	.	.	.	.	.	3	.	.	-1	.	-E	.	-3	.	.	B	.	B	3	.	-B	.
$\chi_{103}^{(80)}$	.	.	.	.	.	.	3	.	.	-1	.	E	.	-3	.	.	-B	.	-B	3	.	B	.
$\chi_{103}^{(81)}$	.	.	.	.	.	.	G	.	.	A	.	I	.	-3	.	.	B	.	-/C	3	.	-C	.
$\chi_{103}^{(82)}$	.	.	.	.	.	.	/G	.	.	/A	.	-/I	.	-3	.	.	B	.	C	3	.	/C	.
$\chi_{103}^{(83)}$	.	.	.	.	.	.	G	.	.	A	.	-I	.	-3	.	.	-B	.	/C	3	.	C	.
$\chi_{103}^{(84)}$	.	.	.	.	.	.	/G	.	.	/A	.	/I	.	-3	.	.	-B	.	-C	3	.	-/C	.

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$\chi_{103}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{103}^{(2)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	1	1	1
$\chi_{103}^{(3)}$	/A	A	-/A	-A	-A	-/A	1	-/A	A	A	/A	-1	/A	-1	1	A	/A	-A	1	-/A	-/A
$\chi_{103}^{(4)}$	A	/A	-A	-/A	-/A	-A	1	-A	/A	/A	A	-1	A	-1	1	/A	A	-/A	1	-A	-A
$\chi_{103}^{(5)}$	/A	-1	1	-A	-/A	-A	-/A	-/A	-1	/A	A	-1	-1	/A	-/A	A	/A	-A	-A	-A	-/A
$\chi_{103}^{(6)}$	A	-1	1	-/A	-A	-/A	-A	-A	-1	A	/A	-1	-1	A	-A	/A	A	-/A	-/A	-/A	-A
$\chi_{103}^{(7)}$	A	A	-/A	-/A	1	1	-/A	-A	A	-1	-1	-1	/A	/A	-/A	/A	A	-/A	-A	1	-A
$\chi_{103}^{(8)}$	/A	/A	-A	-A	1	1	-A	-/A	/A	-1	-1	-1	A	A	-A	A	/A	-A	-/A	1	-/A
$\chi_{103}^{(9)}$	-1	/A	-A	1	-A	-/A	-/A	1	/A	A	/A	-1	A	/A	-/A	-1	-1	1	-A	-/A	1
$\chi_{103}^{(10)}$	-1	A	-/A	1	-/A	-A	-A	1	A	/A	A	-1	/A	A	-A	-1	-1	1	-/A	-A	1
$\chi_{103}^{(11)}$	-/A	-A	-/A	-A	-A	-/A	1	-/A	-A	-A	-/A	1	-/A	1	1	-A	-/A	-A	1	-/A	-/A
$\chi_{103}^{(12)}$	-A	-/A	-A	-/A	-/A	-A	1	-A	-/A	-/A	-A	1	-A	1	1	-/A	-A	-/A	1	-A	-A
$\chi_{103}^{(13)}$	-A	1	1	-/A	-A	-/A	-A	-A	1	-A	-/A	1	1	-A	-A	-/A	-A	-/A	-/A	-/A	-A
$\chi_{103}^{(14)}$	-/A	1	1	-A	-/A	-A	-/A	-/A	1	-/A	-A	1	1	-/A	-/A	-A	-/A	-A	-A	-A	-/A
$\chi_{103}^{(15)}$	1	-A	-/A	1	-/A	-A	-A	1	-A	-/A	-A	1	-/A	-A	-A	1	1	1	-/A	-A	1
$\chi_{103}^{(16)}$	1	-/A	-A	1	-A	-/A	-/A	1	-/A	-A	-/A	1	-A	-/A	-/A	1	1	1	-A	-/A	1
$\chi_{103}^{(17)}$	-/A	-/A	-A	-A	1	1	-A	-/A	-/A	1	1	1	-A	-A	-A	-A	-/A	-A	-/A	1	-/A
$\chi_{103}^{(18)}$	-A	-A	-/A	-/A	1	1	-/A	-A	-A	1	1	1	-/A	-/A	-/A	-/A	-A	-/A	-A	1	-A
$\chi_{103}^{(19)}$	-B	B	1	-1	1	1	-1	-1	B	-B	-B	B	B	B	-1	B	B	-1	1	1	-1
$\chi_{103}^{(20)}$	B	-B	1	-1	1	1	-1	-1	-B	B	B	-B	-B	-B	-1	-B	-B	-1	1	1	-1
$\chi_{103}^{(21)}$	/C	C	-/A	A	-A	-/A	-1	/A	C	-C	/C	B	-/C	B	-1	C	-/C	A	1	-/A	/A
$\chi_{103}^{(22)}$	-C	-/C	-A	/A	-/A	-A	-1	A	-/C	/C	-C	B	C	B	-1	-/C	C	/A	1	-A	A
$\chi_{103}^{(23)}$	-/C	-C	-/A	A	-A	-/A	-1	/A	-C	C	-/C	-B	/C	-B	-1	-C	/C	A	1	-/A	/A
$\chi_{103}^{(24)}$	C	/C	-A	/A	-/A	-A	-1	A	/C	-/C	C	-B	-C	-B	-1	/C	-C	/A	1	-A	A
$\chi_{103}^{(25)}$	/C	B	1	A	-/A	-A	/A	/A	B	/C	-C	B	B	-/C	/A	C	-/C	A	-A	-A	/A
$\chi_{103}^{(26)}$	-C	B	1	/A	-A	-/A	A	A	B	-C	/C	B	B	C	A	-/C	C	/A	-/A	-/A	A
$\chi_{103}^{(27)}$	C	-B	1	/A	-A	-/A	A	A	-B	C	-/C	-B	-B	-C	A	/C	-C	/A	-/A	-/A	A
$\chi_{103}^{(28)}$	-/C	-B	1	A	-/A	-A	/A	/A	-B	-/C	C	-B	-B	/C	/A	-C	/C	A	-A	-A	/A
$\chi_{103}^{(29)}$	-C	C	-/A	/A	1	1	/A	A	C	-B	-B	B	-/C	-/C	/A	-/C	C	/A	-A	1	A
$\chi_{103}^{(30)}$	/C	-/C	-A	A	1	1	A	/A	-/C	-B	-B	B	C	C	A	C	-/C	A	-/A	1	/A
$\chi_{103}^{(31)}$	-/C	/C	-A	A	1	1	A	/A	/C	B	B	-B	-C	-C	A	-C	/C	A	-/A	1	/A
$\chi_{103}^{(32)}$	C	-C	-/A	/A	1	1	/A	A	-C	B	B	-B	/C	/C	/A	/C	-C	/A	-A	1	A
$\chi_{103}^{(33)}$	-B	-/C	-A	-1	-A	-/A	/A	-1	-/C	-C	/C	B	C	-/C	/A	B	B	-1	-A	-/A	-1
$\chi_{103}^{(34)}$	-B	C	-/A	-1	-/A	-A	A	-1	C	/C	-C	B	-/C	C	A	B	B	-1	-/A	-A	-1
$\chi_{103}^{(35)}$	B	-C	-/A	-1	-/A	-A	A	-1	-C	-/C	C	-B	/C	-C	A	-B	-B	-1	-/A	-A	-1
$\chi_{103}^{(36)}$	B	/C	-A	-1	-A	-/A	/A	-1	/C	C	-/C	-B	-C	/C	/A	-B	-B	-1	-A	-/A	-1
$\chi_{103}^{(37)}$	2	1	-1	2	1	-1	1	.	-1	1	-1	-2	-1	-1	-1	-2	2	-2	-1	1	2
$\chi_{103}^{(38)}$	-2	-1	-1	2	1	-1	1	.	1	-1	1	2	1	1	-1	2	-2	-2	-1	1	2
$\chi_{103}^{(39)}$	2	-/A	A	2	-A	/A	-/A	.	/A	-A	/A	-2	A	/A	/A	-2	2	-2	A	-/A	2
$\chi_{103}^{(40)}$	2	-A	/A	2	-/A	A	-A	.	A	-/A	A	-2	/A	A	A	-2	2	-2	/A	-A	2
$\chi_{103}^{(41)}$	F	-/A	A	/F	1	-1	-A	.	/A	1	-1	-2	A	A	A	-/F	F	-/F	/A	1	F
$\chi_{103}^{(42)}$	/F	-A	/A	F	1	-1	-/A	.	A	1	-1	-2	/A	/A	/A	-F	/F	-F	A	1	/F
$\chi_{103}^{(43)}$	F	1	-1	/F	-/A	A	-/A	.	-1	-/A	A	-2	-1	/A	/A	-/F	F	-/F	A	-A	F
$\chi_{103}^{(44)}$	/F	1	-1	F	-A	/A	-A	.	-1	-A	/A	-2	-1	A	A	-F	/F	-F	/A	-/A	/F
$\chi_{103}^{(45)}$	F	-A	/A	/F	-A	/A	1	.	A	-A	/A	-2	/A	-1	-1	-/F	F	-/F	-1	-/A	F

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$\chi_{103}^{(46)}$	/F	-/A	A	F	-/A	A	1	.	/A	-/A	A	-2	A	-1	-1	-F	/F	-F	-1	-A	/F
$\chi_{103}^{(47)}$	-2	/A	A	2	-A	/A	-/A	.	-/A	A	-/A	2	-A	-/A	/A	2	-2	-2	A	-/A	2
$\chi_{103}^{(48)}$	-2	A	/A	2	-/A	A	-A	.	-A	/A	-A	2	-/A	-A	A	2	-2	-2	/A	-A	2
$\chi_{103}^{(49)}$	-F	/A	A	/F	1	-1	-A	.	-/A	-1	1	2	-A	-A	A	/F	-F	-/F	/A	1	F
$\chi_{103}^{(50)}$	-/F	A	/A	F	1	-1	-/A	.	-A	-1	1	2	-/A	-/A	/A	F	-/F	-F	A	1	/F
$\chi_{103}^{(51)}$	-F	-1	-1	/F	-/A	A	-/A	.	1	/A	-A	2	1	-/A	/A	/F	-F	-/F	A	-A	F
$\chi_{103}^{(52)}$	-/F	-1	-1	F	-A	/A	-A	.	1	A	-/A	2	1	-A	A	F	-/F	-F	/A	-/A	/F
$\chi_{103}^{(53)}$	-F	A	/A	/F	-A	/A	1	.	-A	A	-/A	2	-/A	1	-1	/F	-F	-/F	-1	-/A	F
$\chi_{103}^{(54)}$	-/F	/A	A	F	-/A	A	1	.	-/A	/A	-A	2	-A	1	-1	F	-/F	-F	-1	-A	/F
$\chi_{103}^{(55)}$	-D	/C	A	-2	-A	/A	/A	.	-/C	C	/C	-D	C	-/C	-/A	-D	D	2	A	-/A	-2
$\chi_{103}^{(56)}$	-D	-C	/A	-2	-/A	A	A	.	C	-/C	-C	-D	-/C	C	-A	-D	D	2	/A	-A	-2
$\chi_{103}^{(57)}$	D	-/C	A	-2	-A	/A	/A	.	/C	-C	-/C	D	-C	/C	-/A	D	-D	2	A	-/A	-2
$\chi_{103}^{(58)}$	D	C	/A	-2	-/A	A	A	.	-C	/C	C	D	/C	-C	-A	D	-D	2	/A	-A	-2
$\chi_{103}^{(59)}$	-D	-B	-1	-2	1	-1	-1	.	B	B	-B	-D	B	B	1	-D	D	2	-1	1	-2
$\chi_{103}^{(60)}$	D	B	-1	-2	1	-1	-1	.	-B	-B	B	D	-B	-B	1	D	-D	2	-1	1	-2
$\chi_{103}^{(61)}$	/H	/C	A	-/F	1	-1	A	.	-/C	B	-B	-D	C	C	-A	-H	-/H	/F	/A	1	-F
$\chi_{103}^{(62)}$	-H	-C	/A	-F	1	-1	/A	.	C	B	-B	-D	-/C	-/C	-/A	/H	H	F	A	1	-/F
$\chi_{103}^{(63)}$	-/H	-/C	A	-/F	1	-1	A	.	/C	-B	B	D	-C	-C	-A	H	/H	/F	/A	1	-F
$\chi_{103}^{(64)}$	H	C	/A	-F	1	-1	/A	.	-C	-B	B	D	/C	/C	-/A	-/H	-H	F	A	1	-/F
$\chi_{103}^{(65)}$	/H	-B	-1	-/F	-/A	A	/A	.	B	-/C	-C	-D	B	-/C	-/A	-H	-/H	/F	A	-A	-F
$\chi_{103}^{(66)}$	-H	-B	-1	-F	-A	/A	A	.	B	C	/C	-D	B	C	-A	/H	H	F	/A	-/A	-/F
$\chi_{103}^{(67)}$	-/H	B	-1	-/F	-/A	A	/A	.	-B	/C	C	D	-B	/C	-/A	H	/H	/F	A	-A	-F
$\chi_{103}^{(68)}$	H	B	-1	-F	-A	/A	A	.	-B	-C	-/C	D	-B	-C	-A	-/H	-H	F	/A	-/A	-/F
$\chi_{103}^{(69)}$	/H	-C	/A	-/F	-A	/A	-1	.	C	C	/C	-D	-/C	B	1	-H	-/H	/F	-1	-/A	-F
$\chi_{103}^{(70)}$	-H	/C	A	-F	-/A	A	-1	.	-/C	-/C	-C	-D	C	B	1	/H	H	F	-1	-A	-/F
$\chi_{103}^{(71)}$	-/H	C	/A	-/F	-A	/A	-1	.	-C	-C	-/C	D	/C	-B	1	H	/H	/F	-1	-/A	-F
$\chi_{103}^{(72)}$	H	-/C	A	-F	-/A	A	-1	.	/C	/C	C	D	-C	-B	1	-/H	-H	F	-1	-A	-/F
$\chi_{103}^{(73)}$	3	.	.	3	.	.	.	-1	.	.	.	3	.	.	.	3	3	3	.	.	3
$\chi_{103}^{(74)}$	-3	.	.	3	.	.	.	-1	.	.	.	-3	.	.	.	-3	-3	3	.	.	3
$\chi_{103}^{(75)}$	G	.	.	/G	.	.	.	/A	.	.	.	3	.	.	.	/G	G	/G	.	.	G
$\chi_{103}^{(76)}$	/G	.	.	G	.	.	.	A	.	.	.	3	.	.	.	G	/G	G	.	.	/G
$\chi_{103}^{(77)}$	-G	.	.	/G	.	.	.	/A	.	.	.	-3	.	.	.	-/G	-G	/G	.	.	G
$\chi_{103}^{(78)}$	-/G	.	.	G	.	.	.	A	.	.	.	-3	.	.	.	-G	-/G	G	.	.	/G
$\chi_{103}^{(79)}$	E	.	.	-3	.	.	.	1	.	.	.	-E	.	.	.	-E	-E	-3	.	.	-3
$\chi_{103}^{(80)}$	-E	.	.	-3	.	.	.	1	.	.	.	E	.	.	.	E	E	-3	.	.	-3
$\chi_{103}^{(81)}$	/I	.	.	-/G	.	.	.	-/A	.	.	.	-E	.	.	.	I	-/I	-/G	.	.	-G
$\chi_{103}^{(82)}$	-I	.	.	-G	.	.	.	-A	.	.	.	-E	.	.	.	-/I	I	-G	.	.	-/G
$\chi_{103}^{(83)}$	-/I	.	.	-/G	.	.	.	-/A	.	.	.	E	.	.	.	-I	/I	-/G	.	.	-G
$\chi_{103}^{(84)}$	I	.	.	-G	.	.	.	-A	.	.	.	E	.	.	.	/I	-I	-G	.	.	-/G

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$\chi_{103}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{103}^{(2)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	-1	1	-1	-1	1	-1
$\chi_{103}^{(3)}$	A	-1	/A	-/A	-A	-A	/A	A	-1	-A	/A	1	-1	A	-/A	-1
$\chi_{103}^{(4)}$	/A	-1	A	-A	-/A	-/A	A	/A	-1	-/A	A	1	-1	/A	-A	-1
$\chi_{103}^{(5)}$	/A	A	A	-/A	-A	-/A	/A	A	-1	-A	/A	1	A	A	-/A	-1
$\chi_{103}^{(6)}$	A	/A	/A	-A	-/A	-A	A	/A	-1	-/A	A	1	/A	/A	-A	-1
$\chi_{103}^{(7)}$	-1	A	-1	-A	-/A	1	A	/A	-1	-/A	A	1	A	/A	-A	-1
$\chi_{103}^{(8)}$	-1	/A	-1	-/A	-A	1	/A	A	-1	-A	/A	1	/A	A	-/A	-1
$\chi_{103}^{(9)}$	A	A	/A	1	1	-A	-1	-1	-1	1	-1	1	A	-1	1	-1
$\chi_{103}^{(10)}$	/A	/A	A	1	1	-/A	-1	-1	-1	1	-1	1	/A	-1	1	-1
$\chi_{103}^{(11)}$	-A	1	-/A	-/A	-A	-A	-/A	-A	1	-A	-/A	1	1	-A	-/A	1
$\chi_{103}^{(12)}$	-/A	1	-A	-A	-/A	-/A	-A	-/A	1	-/A	-A	1	1	-/A	-A	1
$\chi_{103}^{(13)}$	-A	-/A	-/A	-A	-/A	-A	-A	-/A	1	-/A	-A	1	-/A	-/A	-A	1
$\chi_{103}^{(14)}$	-/A	-A	-A	-/A	-A	-/A	-/A	-A	1	-A	-/A	1	-A	-A	-/A	1
$\chi_{103}^{(15)}$	-/A	-/A	-A	1	1	-/A	1	1	1	1	1	1	-/A	1	1	1
$\chi_{103}^{(16)}$	-A	-A	-/A	1	1	-A	1	1	1	1	1	1	-A	1	1	1
$\chi_{103}^{(17)}$	1	-/A	1	-/A	-A	1	-/A	-A	1	-A	-/A	1	-/A	-A	-/A	1
$\chi_{103}^{(18)}$	1	-A	1	-A	-/A	1	-A	-/A	1	-/A	-A	1	-A	-/A	-A	1
$\chi_{103}^{(19)}$	B	-B	-B	1	1	-1	-B	-B	-B	1	B	-1	B	-B	-1	B
$\chi_{103}^{(20)}$	-B	B	B	1	1	-1	B	B	B	1	-B	-1	-B	B	-1	-B
$\chi_{103}^{(21)}$	C	-B	/C	-/A	-A	A	/C	-C	-B	-A	-/C	-1	B	-C	/A	B
$\chi_{103}^{(22)}$	-/C	-B	-C	-A	-/A	/A	-C	/C	-B	-/A	C	-1	B	/C	A	B
$\chi_{103}^{(23)}$	-C	B	-/C	-/A	-A	A	-/C	C	B	-A	/C	-1	-B	C	/A	-B
$\chi_{103}^{(24)}$	/C	B	C	-A	-/A	/A	C	-/C	B	-/A	-C	-1	-B	-/C	A	-B
$\chi_{103}^{(25)}$	-/C	-C	-C	-/A	-A	/A	/C	-C	-B	-A	-/C	-1	C	-C	/A	B
$\chi_{103}^{(26)}$	C	/C	/C	-A	-/A	A	-C	/C	-B	-/A	C	-1	-/C	/C	A	B
$\chi_{103}^{(27)}$	-C	-/C	-/C	-A	-/A	A	C	-/C	B	-/A	-C	-1	/C	-/C	A	-B
$\chi_{103}^{(28)}$	/C	C	C	-/A	-A	/A	-/C	C	B	-A	/C	-1	-C	C	/A	-B
$\chi_{103}^{(29)}$	B	-C	-B	-A	-/A	-1	-C	/C	-B	-/A	C	-1	C	/C	A	B
$\chi_{103}^{(30)}$	B	/C	-B	-/A	-A	-1	/C	-C	-B	-A	-/C	-1	-/C	-C	/A	B
$\chi_{103}^{(31)}$	-B	-/C	B	-/A	-A	-1	-/C	C	B	-A	/C	-1	/C	C	/A	-B
$\chi_{103}^{(32)}$	-B	C	B	-A	-/A	-1	C	-/C	B	-/A	-C	-1	-C	-/C	A	-B
$\chi_{103}^{(33)}$	C	-C	/C	1	1	A	-B	-B	-B	1	B	-1	C	-B	-1	B
$\chi_{103}^{(34)}$	-/C	/C	-C	1	1	/A	-B	-B	-B	1	B	-1	-/C	-B	-1	B
$\chi_{103}^{(35)}$	/C	-/C	C	1	1	/A	B	B	B	1	-B	-1	/C	B	-1	-B
$\chi_{103}^{(36)}$	-C	C	-/C	1	1	A	B	B	B	1	-B	-1	-C	B	-1	-B
$\chi_{103}^{(37)}$	1	-1	1	-2	2	1	-2	2	2	-2	-2	2	1	-2	-2	2
$\chi_{103}^{(38)}$	-1	1	-1	-2	2	1	2	-2	-2	-2	2	2	-1	2	-2	-2
$\chi_{103}^{(39)}$	-A	A	-/A	-2	2	-A	-2	2	2	-2	-2	2	-A	-2	-2	2
$\chi_{103}^{(40)}$	-/A	/A	-A	-2	2	-/A	-2	2	2	-2	-2	2	-/A	-2	-2	2
$\chi_{103}^{(41)}$	1	/A	1	-F	/F	1	-F	/F	2	-/F	-F	2	-/A	-/F	-F	2
$\chi_{103}^{(42)}$	1	A	1	-/F	F	1	-/F	F	2	-F	-/F	2	-A	-F	-/F	2
$\chi_{103}^{(43)}$	-/A	A	-A	-F	/F	-/A	-F	/F	2	-/F	-F	2	-A	-/F	-F	2
$\chi_{103}^{(44)}$	-A	/A	-/A	-/F	F	-A	-/F	F	2	-F	-/F	2	-/A	-F	-/F	2
$\chi_{103}^{(45)}$	-A	-1	-/A	-F	/F	-A	-F	/F	2	-/F	-F	2	1	-/F	-F	2

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$\chi_{103}^{(46)}$	-/A	-1	-A	-/F	F	-/A	-/F	F	2	-F	-/F	2	1	-F	-/F	2
$\chi_{103}^{(47)}$	A	-A	/A	-2	2	-A	2	-2	-2	-2	2	2	A	2	-2	-2
$\chi_{103}^{(48)}$	/A	-/A	A	-2	2	-/A	2	-2	-2	-2	2	2	/A	2	-2	-2
$\chi_{103}^{(49)}$	-1	-/A	-1	-F	/F	1	F	-/F	-2	-/F	F	2	/A	/F	-F	-2
$\chi_{103}^{(50)}$	-1	-A	-1	-/F	F	1	/F	-F	-2	-F	/F	2	A	F	-/F	-2
$\chi_{103}^{(51)}$	/A	-A	A	-F	/F	-/A	F	-/F	-2	-/F	F	2	A	/F	-F	-2
$\chi_{103}^{(52)}$	A	-/A	/A	-/F	F	-A	/F	-F	-2	-F	/F	2	/A	F	-/F	-2
$\chi_{103}^{(53)}$	A	1	/A	-F	/F	-A	F	-/F	-2	-/F	F	2	-1	/F	-F	-2
$\chi_{103}^{(54)}$	/A	1	A	-/F	F	-/A	/F	-F	-2	-F	/F	2	-1	F	-/F	-2
$\chi_{103}^{(55)}$	-C	-C	-/C	-2	2	A	D	-D	-D	-2	-D	-2	-C	D	2	D
$\chi_{103}^{(56)}$	/C	/C	C	-2	2	/A	D	-D	-D	-2	-D	-2	/C	D	2	D
$\chi_{103}^{(57)}$	C	C	/C	-2	2	A	-D	D	D	-2	D	-2	C	-D	2	-D
$\chi_{103}^{(58)}$	-/C	-/C	-C	-2	2	/A	-D	D	D	-2	D	-2	-/C	-D	2	-D
$\chi_{103}^{(59)}$	-B	-B	B	-2	2	-1	D	-D	-D	-2	-D	-2	-B	D	2	D
$\chi_{103}^{(60)}$	B	B	-B	-2	2	-1	-D	D	D	-2	D	-2	B	-D	2	-D
$\chi_{103}^{(61)}$	-B	/C	B	-F	/F	-1	-/H	-H	-D	-/F	/H	-2	/C	H	F	D
$\chi_{103}^{(62)}$	-B	-C	B	-/F	F	-1	H	/H	-D	-F	-H	-2	-C	-/H	/F	D
$\chi_{103}^{(63)}$	B	-/C	-B	-F	/F	-1	/H	H	D	-/F	-/H	-2	-/C	-H	F	-D
$\chi_{103}^{(64)}$	B	C	-B	-/F	F	-1	-H	-/H	D	-F	H	-2	C	/H	/F	-D
$\chi_{103}^{(65)}$	/C	-C	C	-F	/F	/A	-/H	-H	-D	-/F	/H	-2	-C	H	F	D
$\chi_{103}^{(66)}$	-C	/C	-/C	-/F	F	A	H	/H	-D	-F	-H	-2	/C	-/H	/F	D
$\chi_{103}^{(67)}$	-/C	C	-C	-F	/F	/A	/H	H	D	-/F	-/H	-2	C	-H	F	-D
$\chi_{103}^{(68)}$	C	-/C	/C	-/F	F	A	-H	-/H	D	-F	H	-2	-/C	/H	/F	-D
$\chi_{103}^{(69)}$	-C	-B	-/C	-F	/F	A	-/H	-H	-D	-/F	/H	-2	-B	H	F	D
$\chi_{103}^{(70)}$	/C	-B	C	-/F	F	/A	H	/H	-D	-F	-H	-2	-B	-/H	/F	D
$\chi_{103}^{(71)}$	C	B	/C	-F	/F	A	/H	H	D	-/F	-/H	-2	B	-H	F	-D
$\chi_{103}^{(72)}$	-/C	B	-C	-/F	F	/A	-H	-/H	D	-F	H	-2	B	/H	/F	-D
$\chi_{103}^{(73)}$	.	.	.	3	3	.	3	3	3	3	3	3	.	3	3	3
$\chi_{103}^{(74)}$	.	.	.	3	3	.	-3	-3	-3	3	-3	3	.	-3	3	-3
$\chi_{103}^{(75)}$	.	.	.	G	/G	.	G	/G	3	/G	G	3	.	/G	G	3
$\chi_{103}^{(76)}$	.	.	.	/G	G	.	/G	G	3	G	/G	3	.	G	/G	3
$\chi_{103}^{(77)}$	.	.	.	G	/G	.	-G	-/G	-3	/G	-G	3	.	-/G	G	-3
$\chi_{103}^{(78)}$	.	.	.	/G	G	.	-/G	-G	-3	G	-/G	3	.	-G	/G	-3
$\chi_{103}^{(79)}$	.	.	.	3	3	.	E	E	E	3	-E	-3	.	E	-3	-E
$\chi_{103}^{(80)}$	.	.	.	3	3	.	-E	-E	-E	3	E	-3	.	-E	-3	E
$\chi_{103}^{(81)}$	.	.	.	G	/G	.	/I	-I	E	/G	-/I	-3	.	-I	-G	-E
$\chi_{103}^{(82)}$	.	.	.	/G	G	.	-I	/I	E	G	I	-3	.	/I	-/G	-E
$\chi_{103}^{(83)}$	.	.	.	G	/G	.	-/I	I	-E	/G	/I	-3	.	I	-G	E
$\chi_{103}^{(84)}$	.	.	.	/G	G	.	I	-/I	-E	G	-I	-3	.	-/I	-/G	E

where A = -E(3)^2 = (1+ER(-3))/2 = 1+b3, B = E(4) = ER(-1) = i, C = E(12)^{11},D = -2*E(4) = -2*ER(-1) = -2i, E = 3*E(4) = 3*ER(-1) = 3i, F = 2*E(3) = -1+ER(-3) = 2b3, G = 3*E(3) = (-3+3*ER(-3))/2 = 3b3, H = -2*E(12)^{11},I = -3*E(12)^{11}.

The generators of G^{s104} are:

$$\begin{pmatrix} 0 & 1 & 0 & 0 & -1 & 0 & 0 & 2 \\ 0 & 3 & 0 & -1 & -1 & 0 & 0 & 2 \\ 0 & 3 & 1 & -1 & -2 & 0 & 0 & 3 \\ -1 & 5 & 1 & -1 & -3 & 0 & 0 & 4 \\ -1 & 4 & 1 & -1 & -2 & 0 & -1 & 4 \\ -1 & 3 & 1 & -1 & -2 & 1 & -1 & 3 \\ -1 & 2 & 1 & -1 & -1 & 1 & -1 & 2 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 2 & -1 & 0 & -1 & 0 & 0 & 1 \\ 0 & 3 & 0 & -1 & -1 & 0 & 0 & 2 \\ 0 & 4 & -1 & 0 & -2 & 0 & 0 & 2 \\ 0 & 5 & -1 & 0 & -3 & 0 & 0 & 4 \\ 0 & 4 & -1 & 0 & -2 & 0 & -1 & 4 \\ 0 & 3 & -1 & 0 & -2 & 1 & -1 & 3 \\ 0 & 2 & -1 & 0 & -1 & 1 & -1 & 2 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & 0 & -1 \\ 0 & 1 & -1 & 1 & -1 & 1 & 0 & -1 \\ 0 & 0 & -1 & 2 & -2 & 2 & 0 & -2 \\ 0 & 0 & -2 & 3 & -2 & 2 & 0 & -2 \\ 0 & 0 & -2 & 2 & -1 & 2 & 0 & -2 \\ 0 & 0 & -1 & 1 & -1 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s104} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -2 & 1 & 0 & 1 & 0 & 0 & -1 \\ 0 & -3 & 1 & 0 & 2 & -1 & 0 & -1 \\ 0 & -4 & 1 & 0 & 2 & 0 & 0 & -2 \\ 0 & -5 & 2 & -1 & 4 & -1 & 0 & -3 \\ 0 & -4 & 2 & -1 & 3 & -1 & 1 & -3 \\ 0 & -3 & 1 & 0 & 2 & -1 & 1 & -3 \\ 0 & -2 & 1 & 0 & 1 & -1 & 1 & -2 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 2 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -3 & 0 & 5 & -3 & 0 & -3 & 0 \\ 0 & -2 & 0 & 4 & -3 & 1 & -3 & 0 \\ 0 & -1 & 0 & 3 & -2 & 0 & -2 & 0 \\ 0 & -1 & 0 & 2 & -1 & 0 & -1 & -1 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 2 & -1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 3 & -1 & -1 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -2 & -1 & 5 & -2 & -1 & -3 & 0 \\ 0 & -1 & -1 & 4 & -2 & 0 & -3 & 0 \\ 0 & -1 & 0 & 3 & -2 & 0 & -2 & 0 \\ 0 & -1 & 0 & 2 & -1 & 0 & -1 & -1 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & -1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 & -1 & 3 & -2 \\ 0 & -2 & 1 & 2 & -2 & -2 & 4 & -2 \\ 0 & -2 & 1 & 3 & -3 & -3 & 6 & -4 \\ 0 & -1 & 1 & 2 & -3 & -2 & 5 & -3 \\ 0 & 0 & 1 & 1 & -2 & -2 & 4 & -2 \\ 0 & 0 & 1 & 1 & -2 & -1 & 2 & -1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & -1 & -1 & 2 & -1 \\ 0 & -1 & 1 & 1 & -1 & -2 & 3 & -1 \\ 0 & -2 & 1 & 2 & -2 & -2 & 4 & -2 \\ 0 & -2 & 2 & 2 & -2 & -4 & 6 & -3 \\ 0 & -1 & 2 & 1 & -2 & -3 & 5 & -2 \\ 0 & 0 & 1 & 1 & -2 & -2 & 4 & -2 \\ 0 & 0 & 1 & 1 & -2 & -1 & 2 & -1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -1 & -1 & 1 \\ 0 & -1 & 0 & 2 & 0 & -2 & -1 & 1 \\ 0 & -2 & 1 & 2 & 0 & -2 & -2 & 2 \\ 0 & -2 & 1 & 3 & 0 & -3 & -3 & 2 \\ 0 & -1 & 1 & 2 & 0 & -2 & -3 & 2 \\ 0 & -1 & 1 & 2 & -1 & -1 & -2 & 1 \\ 0 & -1 & 1 & 1 & 0 & -1 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 & 1 & 0 & -1 \\ 0 & 0 & 0 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 2 & -2 & 2 & 0 & -2 \\ 0 & 0 & 0 & 2 & -3 & 3 & 0 & -3 \\ 0 & 0 & 0 & 1 & -2 & 3 & 0 & -3 \\ 0 & 1 & 0 & 0 & -1 & 2 & 0 & -2 \\ 0 & 1 & 0 & 0 & -1 & 1 & 1 & -2 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & -1 & 1 & 0 & -1 \\ 0 & 1 & -1 & 1 & -1 & 1 & 0 & -1 \\ 0 & 0 & -1 & 2 & -2 & 2 & 0 & -2 \\ 0 & 1 & -1 & 2 & -2 & 2 & 0 & -3 \\ 0 & 1 & -1 & 1 & -1 & 2 & 0 & -3 \\ 0 & 1 & 0 & 0 & -1 & 2 & 0 & -2 \\ 0 & 1 & 0 & 0 & -1 & 1 & 1 & -2 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 2 & -2 & 1 \\ 0 & 0 & 0 & -1 & 0 & 3 & -3 & 1 \\ 0 & 0 & 1 & -2 & 0 & 4 & -4 & 2 \\ 0 & 1 & 1 & -3 & 0 & 6 & -6 & 2 \\ 0 & 0 & 1 & -2 & 0 & 5 & -5 & 1 \\ 0 & 0 & 1 & -2 & 1 & 3 & -4 & 1 \\ 0 & 0 & 1 & -2 & 1 & 2 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 2 & -2 & 1 \\ 0 & 0 & 1 & -2 & 1 & 2 & -3 & 2 \\ 0 & 0 & 1 & -2 & 0 & 4 & -4 & 2 \\ 0 & 1 & 2 & -4 & 1 & 5 & -6 & 3 \\ 0 & 0 & 2 & -3 & 1 & 4 & -5 & 2 \\ 0 & 0 & 1 & -2 & 1 & 3 & -4 & 1 \\ 0 & 0 & 1 & -2 & 1 & 2 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \\ 0 & 0 & 0 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -2 & 2 & -2 & 0 & 2 \\ 0 & 1 & 1 & -3 & 3 & -3 & 0 & 2 \\ 0 & 1 & 1 & -2 & 2 & -3 & 0 & 2 \\ 0 & 0 & 1 & -1 & 1 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 1 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 1 & 1 & -1 \\ 0 & 1 & 0 & -2 & 0 & 2 & 1 & -1 \\ 0 & 2 & -1 & -2 & 0 & 2 & 2 & -2 \\ 0 & 3 & 0 & -4 & 0 & 3 & 3 & -3 \\ 0 & 2 & 0 & -3 & 0 & 2 & 3 & -3 \\ 0 & 2 & 0 & -3 & 1 & 1 & 2 & -2 \\ 0 & 2 & 0 & -2 & 0 & 1 & 1 & -1 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 1 & 1 & -1 \\ 0 & 2 & -1 & -2 & 1 & 1 & 1 & -1 \\ 0 & 2 & -1 & -2 & 0 & 2 & 2 & -2 \\ 0 & 4 & -1 & -4 & 1 & 2 & 3 & -3 \\ 0 & 3 & -1 & -3 & 1 & 1 & 3 & -3 \\ 0 & 2 & 0 & -3 & 1 & 1 & 2 & -2 \\ 0 & 2 & 0 & -2 & 0 & 1 & 1 & -1 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 2 & 0 & -3 & 2 & 0 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 4 & 1 & -6 & 3 & 0 & 3 & -1 \\ 0 & 3 & 1 & -5 & 3 & -1 & 3 & -1 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & -1 \\ 0 & 2 & 1 & -3 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & -2 & 1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & 0 & -2 & 1 & 0 & 1 \\ 0 & 2 & 0 & 0 & -3 & 2 & 0 & 1 \\ 0 & 2 & 1 & 0 & -4 & 2 & 0 & 2 \\ 0 & 4 & 1 & 0 & -6 & 3 & 0 & 2 \\ 0 & 3 & 1 & 0 & -5 & 3 & -1 & 2 \\ 0 & 3 & 1 & -1 & -3 & 2 & -1 & 2 \\ 0 & 2 & 1 & -1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 1 & -1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & 0 & -2 & 1 & 0 & 1 \\ 0 & 2 & 1 & -1 & -2 & 1 & 0 & 2 \\ 0 & 2 & 1 & 0 & -4 & 2 & 0 & 2 \\ 0 & 4 & 2 & -1 & -5 & 2 & 0 & 3 \\ 0 & 3 & 2 & -1 & -4 & 2 & -1 & 3 \\ 0 & 3 & 1 & -1 & -3 & 2 & -1 & 2 \\ 0 & 2 & 1 & -1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 1 & -1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & -1 & 1 & 1 & 0 & 0 & -1 \\ 0 & -3 & 0 & 1 & 1 & 0 & 0 & -2 \\ 0 & -3 & -1 & 1 & 2 & 0 & 0 & -3 \\ -1 & -5 & 0 & 1 & 3 & 0 & 0 & -4 \\ -1 & -4 & 0 & 1 & 2 & 0 & 1 & -4 \\ -1 & -3 & 0 & 1 & 2 & -1 & 1 & -3 \\ -1 & -2 & 0 & 1 & 1 & -1 & 1 & -2 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & -1 & 1 & 1 & 0 & 0 & -1 \\ 0 & -2 & -1 & 1 & 2 & -1 & 0 & -2 \\ 0 & -3 & -1 & 1 & 2 & 0 & 0 & -3 \\ -1 & -4 & -1 & 1 & 4 & -1 & 0 & -4 \\ -1 & -3 & -1 & 1 & 3 & -1 & 1 & -4 \\ -1 & -3 & 0 & 1 & 2 & -1 & 1 & -3 \\ -1 & -2 & 0 & 1 & 1 & -1 & 1 & -2 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 0 & 2 & -1 & 0 & 0 \\ 0 & -2 & 0 & 0 & 3 & -2 & 0 & -1 \\ 0 & -3 & 1 & -1 & 4 & -2 & 0 & -1 \\ -1 & -4 & 1 & -1 & 6 & -3 & 0 & -2 \\ -1 & -3 & 1 & -1 & 5 & -3 & 1 & -2 \\ -1 & -3 & 1 & 0 & 3 & -2 & 1 & -2 \\ -1 & -2 & 1 & 0 & 2 & -2 & 1 & -1 \\ -1 & -1 & 1 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 2 & -1 & 0 & -1 & 1 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 0 & -3 & 1 & 3 & -2 & 0 & -2 & 1 \\ -1 & -4 & 1 & 5 & -3 & 0 & -3 & 1 \\ -1 & -3 & 1 & 4 & -3 & 1 & -3 & 1 \\ -1 & -2 & 1 & 3 & -2 & 0 & -2 & 1 \\ -1 & -2 & 1 & 2 & -1 & 0 & -1 & 0 \\ -1 & -1 & 1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 0 & 2 & -1 & 0 & -1 & 1 \\ 0 & -2 & 1 & 2 & -1 & -1 & -1 & 1 \\ 0 & -3 & 1 & 3 & -2 & 0 & -2 & 1 \\ -1 & -4 & 2 & 4 & -2 & -1 & -3 & 2 \\ -1 & -3 & 2 & 3 & -2 & 0 & -3 & 2 \\ -1 & -2 & 1 & 3 & -2 & 0 & -2 & 1 \\ -1 & -2 & 1 & 2 & -1 & 0 & -1 & 0 \\ -1 & -1 & 1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 2 & -1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 & -1 & 3 & -2 \\ 0 & -1 & -1 & 3 & -2 & -2 & 4 & -3 \\ -1 & -2 & 0 & 4 & -3 & -3 & 6 & -4 \\ -1 & -1 & 0 & 3 & -3 & -2 & 5 & -3 \\ -1 & 0 & 0 & 2 & -2 & -2 & 4 & -2 \\ -1 & 0 & 0 & 2 & -2 & -1 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 2 & -1 & -1 & 2 & -1 \\ 0 & 0 & -1 & 2 & -1 & -2 & 3 & -2 \\ 0 & -1 & -1 & 3 & -2 & -2 & 4 & -3 \\ -1 & -1 & -1 & 4 & -2 & -4 & 6 & -4 \\ -1 & 0 & -1 & 3 & -2 & -3 & 5 & -3 \\ -1 & 0 & 0 & 2 & -2 & -2 & 4 & -2 \\ -1 & 0 & 0 & 2 & -2 & -1 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 1 & -1 & 0 & 0 & 0 & 1 \\ -1 & -1 & 1 & -1 & 0 & 0 & 0 & 1 \\ -1 & -1 & 1 & 0 & -1 & 0 & 0 & 1 \\ -1 & -1 & 1 & 0 & 0 & -1 & 0 & 1 \\ -1 & -1 & 1 & 0 & 0 & 0 & -1 & 1 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & 1 & -1 & 1 & -1 & 0 & 1 \\ 0 & -1 & 1 & -1 & 0 & 0 & 0 & 1 \\ -1 & -1 & 2 & -2 & 1 & -1 & 0 & 2 \\ -1 & -1 & 2 & -1 & 0 & -1 & 0 & 2 \\ -1 & -1 & 1 & 0 & 0 & -1 & 0 & 1 \\ -1 & -1 & 1 & 0 & 0 & 0 & -1 & 1 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 1 & 0 & 0 & -2 \\ 0 & -3 & 0 & 1 & 1 & 0 & 0 & -2 \\ 0 & -3 & -1 & 1 & 2 & 0 & 0 & -3 \\ 1 & -5 & -1 & 1 & 3 & 0 & 0 & -4 \\ 1 & -4 & -1 & 1 & 2 & 0 & 1 & -4 \\ 1 & -3 & -1 & 1 & 2 & -1 & 1 & -3 \\ 1 & -2 & -1 & 1 & 1 & -1 & 1 & -2 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 0 & 1 & 0 & 0 & -2 \\ 0 & -2 & -1 & 1 & 2 & -1 & 0 & -2 \\ 0 & -3 & -1 & 1 & 2 & 0 & 0 & -3 \\ 1 & -4 & -2 & 1 & 4 & -1 & 0 & -4 \\ 1 & -3 & -2 & 1 & 3 & -1 & 1 & -4 \\ 1 & -3 & -1 & 1 & 2 & -1 & 1 & -3 \\ 1 & -2 & -1 & 1 & 1 & -1 & 1 & -2 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -2 & 2 & 0 & -1 \\ 0 & -1 & 1 & 1 & -2 & 2 & 0 & -1 \\ -1 & -1 & 1 & 2 & -3 & 3 & 0 & -2 \\ -1 & -1 & 1 & 1 & -2 & 3 & 0 & -2 \\ -1 & 0 & 1 & 0 & -1 & 2 & 0 & -1 \\ -1 & 0 & 1 & 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -2 & 2 & 0 & -1 \\ -1 & -1 & 2 & 1 & -2 & 2 & 0 & -1 \\ -1 & -1 & 2 & 0 & -1 & 2 & 0 & -1 \\ -1 & 0 & 1 & 0 & -1 & 2 & 0 & -1 \\ -1 & 0 & 1 & 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 1 & 0 & -2 & 2 & 0 \\ 0 & 0 & 0 & 1 & 0 & -3 & 3 & -1 \\ 0 & -1 & 1 & 1 & 0 & -4 & 4 & -1 \\ -1 & -1 & 1 & 2 & 0 & -6 & 6 & -2 \\ -1 & 0 & 1 & 1 & 0 & -5 & 5 & -1 \\ -1 & 0 & 1 & 1 & -1 & -3 & 4 & -1 \\ -1 & 0 & 1 & 1 & -1 & -2 & 2 & 0 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 2 & -1 & 0 & -1 \\ 0 & -2 & 0 & 0 & 3 & -2 & 0 & -1 \\ 0 & -3 & 1 & -1 & 4 & -2 & 0 & -1 \\ 1 & -4 & 0 & -1 & 6 & -3 & 0 & -2 \\ 1 & -3 & 0 & -1 & 5 & -3 & 1 & -2 \\ 1 & -3 & 0 & 0 & 3 & -2 & 1 & -2 \\ 1 & -2 & 0 & 0 & 2 & -2 & 1 & -1 \\ 1 & -1 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 1 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 0 & -3 & 1 & 3 & -2 & 0 & -2 & 1 \\ 1 & -4 & 0 & 5 & -3 & 0 & -3 & 1 \\ 1 & -3 & 0 & 4 & -3 & 1 & -3 & 1 \\ 1 & -2 & 0 & 3 & -2 & 0 & -2 & 1 \\ 1 & -2 & 0 & 2 & -1 & 0 & -1 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 1 & -1 & 0 & -1 & 0 \\ 0 & -2 & 1 & 2 & -1 & -1 & -1 & 1 \\ 0 & -3 & 1 & 3 & -2 & 0 & -2 & 1 \\ 1 & -4 & 1 & 4 & -2 & -1 & -3 & 2 \\ 1 & -3 & 1 & 3 & -2 & 0 & -3 & 2 \\ 1 & -2 & 0 & 3 & -2 & 0 & -2 & 1 \\ 1 & -2 & 0 & 2 & -1 & 0 & -1 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 2 & -2 & 1 \\ 0 & 0 & 0 & -1 & 0 & 3 & -3 & 1 \\ 0 & 1 & -1 & -1 & 0 & 4 & -4 & 1 \\ -1 & 1 & 0 & -2 & 0 & 6 & -6 & 2 \\ -1 & 0 & 0 & -1 & 0 & 5 & -5 & 1 \\ -1 & 0 & 0 & -1 & 1 & 3 & -4 & 1 \\ -1 & 0 & 0 & -1 & 1 & 2 & -2 & 0 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 2 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 & 2 & -3 & 1 \\ 0 & 1 & -1 & -1 & 0 & 4 & -4 & 1 \\ -1 & 2 & -1 & -2 & 1 & 5 & -6 & 2 \\ -1 & 1 & -1 & -1 & 1 & 4 & -5 & 1 \\ -1 & 0 & 0 & -1 & 1 & 3 & -4 & 1 \\ -1 & 0 & 0 & -1 & 1 & 2 & -2 & 0 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & -1 & 0 & 1 & 1 & 0 \\ 0 & 1 & 0 & -2 & 0 & 2 & 1 & -1 \\ 0 & 1 & 1 & -3 & 0 & 2 & 2 & -1 \\ -1 & 2 & 1 & -4 & 0 & 3 & 3 & -2 \\ -1 & 1 & 1 & -3 & 0 & 2 & 3 & -2 \\ -1 & 1 & 1 & -3 & 1 & 1 & 2 & -1 \\ -1 & 1 & 1 & -2 & 0 & 1 & 1 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 0 & 1 & 1 & 0 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 1 & 1 & -3 & 0 & 2 & 2 & -1 \\ -1 & 2 & 2 & -5 & 1 & 2 & 3 & -1 \\ -1 & 1 & 2 & -4 & 1 & 1 & 3 & -1 \\ -1 & 1 & 1 & -3 & 1 & 1 & 2 & -1 \\ -1 & 1 & 1 & -2 & 0 & 1 & 1 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 1 & 1 & -2 & 2 \\ 0 & 1 & 0 & -2 & 2 & 1 & -3 & 2 \\ 0 & 1 & 1 & -3 & 2 & 2 & -4 & 3 \\ -1 & 2 & 1 & -4 & 3 & 3 & -6 & 4 \\ -1 & 1 & 1 & -3 & 3 & 2 & -5 & 3 \\ -1 & 0 & 1 & -2 & 2 & 2 & -4 & 2 \\ -1 & 0 & 1 & -2 & 2 & 1 & -2 & 1 \\ -1 & 0 & 1 & -1 & 1 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 1 & -1 & -1 & 2 & -2 \\ 0 & -1 & 0 & 2 & -2 & -1 & 3 & -2 \\ 0 & -1 & -1 & 3 & -2 & -2 & 4 & -3 \\ 1 & -2 & -1 & 4 & -3 & -3 & 6 & -4 \\ 1 & -1 & -1 & 3 & -3 & -2 & 5 & -3 \\ 1 & 0 & -1 & 2 & -2 & -2 & 4 & -2 \\ 1 & 0 & -1 & 2 & -2 & -1 & 2 & -1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -1 & -1 & 2 & -2 \\ 0 & 0 & -1 & 2 & -1 & -2 & 3 & -2 \\ 0 & -1 & -1 & 3 & -2 & -2 & 4 & -3 \\ 1 & -1 & -2 & 4 & -2 & -4 & 6 & -4 \\ 1 & 0 & -2 & 3 & -2 & -3 & 5 & -3 \\ 1 & 0 & -1 & 2 & -2 & -2 & 4 & -2 \\ 1 & 0 & -1 & 2 & -2 & -1 & 2 & -1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 1 & -1 & 0 & -1 & 0 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 1 & -1 & 1 & -1 & 0 & 1 \\ 0 & -1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 1 & -1 & 1 & -2 & 1 & -1 & 0 & 2 \\ 1 & -1 & 1 & -1 & 0 & -1 & 0 & 2 \\ 1 & -1 & 0 & 0 & 0 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 1 & 0 & -1 \\ 0 & 0 & 0 & 1 & -2 & 2 & 0 & -1 \\ 0 & -1 & 1 & 1 & -2 & 2 & 0 & -1 \\ 1 & -1 & 0 & 2 & -3 & 3 & 0 & -2 \\ 1 & -1 & 0 & 1 & -2 & 3 & 0 & -2 \\ 1 & 0 & 0 & 0 & -1 & 2 & 0 & -1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 1 & 0 & -1 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -2 & 2 & 0 & -1 \\ 1 & -1 & 1 & 1 & -2 & 2 & 0 & -1 \\ 1 & -1 & 1 & 0 & -1 & 2 & 0 & -1 \\ 1 & 0 & 0 & 0 & -1 & 2 & 0 & -1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & 0 & 0 & -2 & 2 & -1 \\ 0 & 0 & 0 & 1 & 0 & -3 & 3 & -1 \\ 0 & -1 & 1 & 1 & 0 & -4 & 4 & -1 \\ 1 & -1 & 0 & 2 & 0 & -6 & 6 & -2 \\ 1 & 0 & 0 & 1 & 0 & -5 & 5 & -1 \\ 1 & 0 & 0 & 1 & -1 & -3 & 4 & -1 \\ 1 & 0 & 0 & 1 & -1 & -2 & 2 & 0 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & -2 & 1 & 0 & 1 \\ 0 & 2 & 0 & 0 & -3 & 2 & 0 & 1 \\ 0 & 3 & -1 & 1 & -4 & 2 & 0 & 1 \\ -1 & 4 & 0 & 1 & -6 & 3 & 0 & 2 \\ -1 & 3 & 0 & 1 & -5 & 3 & -1 & 2 \\ -1 & 3 & 0 & 0 & -3 & 2 & -1 & 2 \\ -1 & 2 & 0 & 0 & -2 & 2 & -1 & 1 \\ -1 & 1 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & -2 & 1 & 0 & 1 \\ 0 & 3 & -1 & 0 & -2 & 1 & 0 & 1 \\ 0 & 3 & -1 & 1 & -4 & 2 & 0 & 1 \\ -1 & 5 & -1 & 1 & -5 & 2 & 0 & 2 \\ -1 & 4 & -1 & 1 & -4 & 2 & -1 & 2 \\ -1 & 3 & 0 & 0 & -3 & 2 & -1 & 2 \\ -1 & 2 & 0 & 0 & -2 & 2 & -1 & 1 \\ -1 & 1 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 2 & -2 & 0 \\ 0 & 0 & 0 & -1 & 0 & 3 & -3 & 1 \\ 0 & 1 & -1 & -1 & 0 & 4 & -4 & 1 \\ 1 & 1 & -1 & -2 & 0 & 6 & -6 & 2 \\ 1 & 0 & -1 & -1 & 0 & 5 & -5 & 1 \\ 1 & 0 & -1 & -1 & 1 & 3 & -4 & 1 \\ 1 & 0 & -1 & -1 & 1 & 2 & -2 & 0 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 2 & -2 & 0 \\ 0 & 1 & -1 & -1 & 1 & 2 & -3 & 1 \\ 0 & 1 & -1 & -1 & 0 & 4 & -4 & 1 \\ 1 & 2 & -2 & -2 & 1 & 5 & -6 & 2 \\ 1 & 1 & -2 & -1 & 1 & 4 & -5 & 1 \\ 1 & 0 & -1 & -1 & 1 & 3 & -4 & 1 \\ 1 & 0 & -1 & -1 & 1 & 2 & -2 & 0 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & -1 & 0 & 0 & 2 \\ 0 & 3 & 0 & -1 & -1 & 0 & 0 & 2 \\ 0 & 3 & 1 & -1 & -2 & 0 & 0 & 3 \\ -1 & 5 & 1 & -1 & -3 & 0 & 0 & 4 \\ -1 & 4 & 1 & -1 & -2 & 0 & -1 & 4 \\ -1 & 3 & 1 & -1 & -2 & 1 & -1 & 3 \\ -1 & 2 & 1 & -1 & -1 & 1 & -1 & 2 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 1 & -2 & 0 & 1 & 1 & -1 \\ 0 & 1 & 0 & -2 & 0 & 2 & 1 & -1 \\ 0 & 1 & 1 & -3 & 0 & 2 & 2 & -1 \\ 1 & 2 & 0 & -4 & 0 & 3 & 3 & -2 \\ 1 & 1 & 0 & -3 & 0 & 2 & 3 & -2 \\ 1 & 1 & 0 & -3 & 1 & 1 & 2 & -1 \\ 1 & 1 & 0 & -2 & 0 & 1 & 1 & 0 \\ 1 & 0 & 0 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 1 & -2 & 0 & 1 & 1 & -1 \\ 0 & 1 & 1 & -3 & 1 & 1 & 1 & 0 \\ 0 & 1 & 1 & -3 & 0 & 2 & 2 & -1 \\ 1 & 2 & 1 & -5 & 1 & 2 & 3 & -1 \\ 1 & 1 & 1 & -4 & 1 & 1 & 3 & -1 \\ 1 & 1 & 0 & -3 & 1 & 1 & 2 & -1 \\ 1 & 1 & 0 & -2 & 0 & 1 & 1 & 0 \\ 1 & 0 & 0 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 1 & -2 & 1 & 1 & -2 & 1 \\ 0 & 1 & 0 & -2 & 2 & 1 & -3 & 2 \\ 0 & 1 & 1 & -3 & 2 & 2 & -4 & 3 \\ 1 & 2 & 0 & -4 & 3 & 3 & -6 & 4 \\ 1 & 1 & 0 & -3 & 3 & 2 & -5 & 3 \\ 1 & 0 & 0 & -2 & 2 & 2 & -4 & 2 \\ 1 & 0 & 0 & -2 & 2 & 1 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 2 & 0 & 0 & -2 & 1 & 0 & 0 \\ 0 & 2 & 0 & 0 & -3 & 2 & 0 & 1 \\ 0 & 3 & -1 & 1 & -4 & 2 & 0 & 1 \\ 1 & 4 & -1 & 1 & -6 & 3 & 0 & 2 \\ 1 & 3 & -1 & 1 & -5 & 3 & -1 & 2 \\ 1 & 3 & -1 & 0 & -3 & 2 & -1 & 2 \\ 1 & 2 & -1 & 0 & -2 & 2 & -1 & 1 \\ 1 & 1 & -1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & 0 & -2 & 1 & 0 & 0 \\ 0 & 3 & -1 & 0 & -2 & 1 & 0 & 1 \\ 0 & 3 & -1 & 1 & -4 & 2 & 0 & 1 \\ 1 & 5 & -2 & 1 & -5 & 2 & 0 & 2 \\ 1 & 4 & -2 & 1 & -4 & 2 & -1 & 2 \\ 1 & 3 & -1 & 0 & -3 & 2 & -1 & 2 \\ 1 & 2 & -1 & 0 & -2 & 2 & -1 & 1 \\ 1 & 1 & -1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 1 & -1 & -1 & 0 & 0 & 1 \\ 0 & 3 & 0 & -1 & -1 & 0 & 0 & 2 \\ 0 & 3 & 1 & -1 & -2 & 0 & 0 & 3 \\ 1 & 5 & 0 & -1 & -3 & 0 & 0 & 4 \\ 1 & 4 & 0 & -1 & -2 & 0 & -1 & 4 \\ 1 & 3 & 0 & -1 & -2 & 1 & -1 & 3 \\ 1 & 2 & 0 & -1 & -1 & 1 & -1 & 2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -2 & 0 & 0 & 1 & 0 & 0 & -1 \\ 0 & -3 & 0 & 1 & 1 & 0 & 0 & -2 \\ 0 & -4 & 1 & 0 & 2 & 0 & 0 & -2 \\ 0 & -6 & 0 & 1 & 3 & 0 & 0 & -3 \\ 0 & -5 & 0 & 1 & 2 & 0 & 1 & -3 \\ 0 & -4 & 0 & 1 & 2 & -1 & 1 & -2 \\ 0 & -3 & 0 & 1 & 1 & -1 & 1 & -1 \\ 0 & -2 & 0 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -2 & 0 & 0 & 1 & 0 & 0 & -1 \\ 0 & -3 & 1 & 0 & 2 & -1 & 0 & -1 \\ 0 & -4 & 1 & 0 & 2 & 0 & 0 & -2 \\ 0 & -6 & 1 & 0 & 4 & -1 & 0 & -2 \\ 0 & -5 & 1 & 0 & 3 & -1 & 1 & -2 \\ 0 & -4 & 0 & 1 & 2 & -1 & 1 & -2 \\ 0 & -3 & 0 & 1 & 1 & -1 & 1 & -1 \\ 0 & -2 & 0 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -4 & -1 & 6 & -3 & 0 & -3 & 1 \\ 0 & -3 & -1 & 5 & -3 & 1 & -3 & 1 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 1 \\ 0 & -2 & -1 & 3 & -1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 3 & -1 & -1 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -3 & -2 & 6 & -2 & -1 & -3 & 1 \\ 0 & -2 & -2 & 5 & -2 & 0 & -3 & 1 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 1 \\ 0 & -2 & -1 & 3 & -1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & -1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 & -1 & 3 & -2 \\ 0 & -2 & 1 & 2 & -2 & -2 & 4 & -2 \\ 0 & -3 & 0 & 4 & -3 & -3 & 6 & -3 \\ 0 & -2 & 0 & 3 & -3 & -2 & 5 & -2 \\ 0 & -1 & 0 & 2 & -2 & -2 & 4 & -1 \\ 0 & -1 & 0 & 2 & -2 & -1 & 2 & 0 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & -1 & -1 & 2 & -1 \\ 0 & -1 & 1 & 1 & -1 & -2 & 3 & -1 \\ 0 & -2 & 1 & 2 & -2 & -2 & 4 & -2 \\ 0 & -3 & 1 & 3 & -2 & -4 & 6 & -2 \\ 0 & -2 & 1 & 2 & -2 & -3 & 5 & -1 \\ 0 & -1 & 0 & 2 & -2 & -2 & 4 & -1 \\ 0 & -1 & 0 & 2 & -2 & -1 & 2 & 0 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & -1 & 1 \\ 0 & -1 & 0 & 2 & 0 & -2 & -1 & 1 \\ 0 & -2 & 1 & 2 & 0 & -2 & -2 & 2 \\ 0 & -3 & 0 & 4 & 0 & -3 & -3 & 3 \\ 0 & -2 & 0 & 3 & 0 & -2 & -3 & 3 \\ 0 & -2 & 0 & 3 & -1 & -1 & -2 & 2 \\ 0 & -2 & 0 & 2 & 0 & -1 & -1 & 1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -2 & 0 & 1 & -1 & 0 & 1 \\ 0 & 0 & -2 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & 0 & -1 \\ 0 & 0 & 0 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 2 & -2 & 2 & 0 & -2 \\ 0 & -1 & -1 & 3 & -3 & 3 & 0 & -2 \\ 0 & -1 & -1 & 2 & -2 & 3 & 0 & -2 \\ 0 & 0 & -1 & 1 & -1 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & 0 & -1 \\ 0 & 1 & -1 & 1 & -1 & 1 & 0 & -1 \\ 0 & 0 & -1 & 2 & -2 & 2 & 0 & -2 \\ 0 & 0 & -2 & 3 & -2 & 2 & 0 & -2 \\ 0 & 0 & -2 & 2 & -1 & 2 & 0 & -2 \\ 0 & 0 & -1 & 1 & -1 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 0 & 2 & -2 & 1 \\ 0 & 0 & 0 & -1 & 0 & 3 & -3 & 1 \\ 0 & 0 & 1 & -2 & 0 & 4 & -4 & 2 \\ 0 & 0 & 0 & -2 & 0 & 6 & -6 & 3 \\ 0 & -1 & 0 & -1 & 0 & 5 & -5 & 2 \\ 0 & -1 & 0 & -1 & 1 & 3 & -4 & 2 \\ 0 & -1 & 0 & -1 & 1 & 2 & -2 & 1 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & -1 & 0 & 2 & -2 & 1 \\ 0 & 0 & 1 & -2 & 1 & 2 & -3 & 2 \\ 0 & 0 & 1 & -2 & 0 & 4 & -4 & 2 \\ 0 & 0 & 1 & -3 & 1 & 5 & -6 & 4 \\ 0 & -1 & 1 & -2 & 1 & 4 & -5 & 3 \\ 0 & -1 & 0 & -1 & 1 & 3 & -4 & 2 \\ 0 & -1 & 0 & -1 & 1 & 2 & -2 & 1 \\ 0 & -1 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 1 & -1 & 0 & 1 \\ 0 & 0 & 0 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -2 & 2 & -2 & 0 & 2 \\ 0 & 0 & 0 & -2 & 3 & -3 & 0 & 3 \\ 0 & 0 & 0 & -1 & 2 & -3 & 0 & 3 \\ 0 & -1 & 0 & 0 & 1 & -2 & 0 & 2 \\ 0 & -1 & 0 & 0 & 1 & -1 & -1 & 2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -2 & 1 & 0 & 1 & 0 & 0 & -1 \\ 0 & -3 & 0 & 1 & 1 & 0 & 0 & -2 \\ 0 & -4 & 1 & 0 & 2 & 0 & 0 & -2 \\ 0 & -5 & 1 & 0 & 3 & 0 & 0 & -4 \\ 0 & -4 & 1 & 0 & 2 & 0 & 1 & -4 \\ 0 & -3 & 1 & 0 & 2 & -1 & 1 & -3 \\ 0 & -2 & 1 & 0 & 1 & -1 & 1 & -2 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 1 & 1 & -1 \\ 0 & 1 & 0 & -2 & 0 & 2 & 1 & -1 \\ 0 & 2 & -1 & -2 & 0 & 2 & 2 & -2 \\ 0 & 2 & -1 & -3 & 0 & 3 & 3 & -2 \\ 0 & 1 & -1 & -2 & 0 & 2 & 3 & -2 \\ 0 & 1 & -1 & -2 & 1 & 1 & 2 & -1 \\ 0 & 1 & -1 & -1 & 0 & 1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 1 & 1 & -1 \\ 0 & 2 & -1 & -2 & 1 & 1 & 1 & -1 \\ 0 & 2 & -1 & -2 & 0 & 2 & 2 & -2 \\ 0 & 3 & -2 & -3 & 1 & 2 & 3 & -2 \\ 0 & 2 & -2 & -2 & 1 & 1 & 3 & -2 \\ 0 & 1 & -1 & -2 & 1 & 1 & 2 & -1 \\ 0 & 1 & -1 & -1 & 0 & 1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -2 & 1 & 0 & 1 & 0 \\ 0 & 2 & 0 & -3 & 2 & 0 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 3 & 0 & -5 & 3 & 0 & 3 & 0 \\ 0 & 2 & 0 & -4 & 3 & -1 & 3 & 0 \\ 0 & 1 & 0 & -3 & 2 & 0 & 2 & 0 \\ 0 & 1 & 0 & -2 & 1 & 0 & 1 & 1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & 0 & -2 & 1 & 0 & 1 \\ 0 & 2 & 0 & 0 & -3 & 2 & 0 & 1 \\ 0 & 2 & 1 & 0 & -4 & 2 & 0 & 2 \\ 0 & 3 & 0 & 1 & -6 & 3 & 0 & 3 \\ 0 & 2 & 0 & 1 & -5 & 3 & -1 & 3 \\ 0 & 2 & 0 & 0 & -3 & 2 & -1 & 3 \\ 0 & 1 & 0 & 0 & -2 & 2 & -1 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & 0 & -2 & 1 & 0 & 1 \\ 0 & 2 & 1 & -1 & -2 & 1 & 0 & 2 \\ 0 & 2 & 1 & 0 & -4 & 2 & 0 & 2 \\ 0 & 3 & 1 & 0 & -5 & 2 & 0 & 4 \\ 0 & 2 & 1 & 0 & -4 & 2 & -1 & 4 \\ 0 & 2 & 0 & 0 & -3 & 2 & -1 & 3 \\ 0 & 1 & 0 & 0 & -2 & 2 & -1 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}.$$

The character table of G^{s104}:

										10										20						
$\chi_{104}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{104}^{(2)}$	1	1	1	-1	-1	1	1	1	-1	1	-1	-1	1	1	1	1	-1	1	-1	1	1	-1	1	-1	1	1
$\chi_{104}^{(3)}$	1	1	1	-1	-1	1	1	1	-1	1	-1	-1	1	1	1	1	-1	1	-1	1	-1	1	-1	1	-1	-1
$\chi_{104}^{(4)}$	1	-1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	1	1	-1	-1	1
$\chi_{104}^{(5)}$	1	-1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	-1
$\chi_{104}^{(6)}$	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	1	1	-1	1	1	-1	-1	1	-1	-1	1	-1
$\chi_{104}^{(7)}$	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	1	1	-1	1	1	-1	1	-1	1	1	-1	1
$\chi_{104}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{104}^{(9)}$	1	-1	-1	1	1	-1	-1	-1	1	-1	1	1	-1	-1	-1	-1	1	-1	1	-1	-A	A	-A	A	-A	-A
$\chi_{104}^{(10)}$	1	-1	-1	1	1	-1	-1	-1	1	-1	1	1	-1	-1	-1	-1	1	-1	1	-1	A	-A	A	-A	A	A
$\chi_{104}^{(11)}$	1	1	-1	-1	1	1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	1	1	-A	-A	-A	A	A	-A
$\chi_{104}^{(12)}$	1	1	-1	-1	1	1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	1	1	A	A	A	-A	-A	A
$\chi_{104}^{(13)}$	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	-1	-1	1	-1	-1	1	A	-A	A	A	-A	A
$\chi_{104}^{(14)}$	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	-1	-1	1	-1	-1	1	-A	A	-A	-A	A	-A
$\chi_{104}^{(15)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	A	A	A	A	A	A
$\chi_{104}^{(16)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-A	-A	-A	-A	-A	-A
$\chi_{104}^{(17)}$	1	A	1	-1	A	-A	1	-1	1	-1	1	A	-A	-1	-1	1	-1	1	-A	A	-1	1	-1	-A	A	1
$\chi_{104}^{(18)}$	1	-A	1	-1	-A	A	1	-1	1	-1	1	-A	A	-1	-1	1	-1	1	A	-A	-1	1	-1	A	-A	1
$\chi_{104}^{(19)}$	1	A	1	-1	A	-A	1	-1	1	-1	1	A	-A	-1	-1	1	-1	1	-A	A	1	-1	1	A	-A	-1
$\chi_{104}^{(20)}$	1	-A	1	-1	-A	A	1	-1	1	-1	1	-A	A	-1	-1	1	-1	1	A	-A	1	-1	1	-A	A	-1
$\chi_{104}^{(21)}$	1	-A	-1	1	-A	A	-1	1	-1	1	-1	-A	A	1	1	-1	1	-1	A	-A	-A	A	-A	1	-1	A
$\chi_{104}^{(22)}$	1	A	-1	1	A	-A	-1	1	-1	1	-1	A	-A	1	1	-1	1	-1	-A	A	A	-A	A	1	-1	-A
$\chi_{104}^{(23)}$	1	-A	-1	1	-A	A	-1	1	-1	1	-1	-A	A	1	1	-1	1	-1	A	-A	A	-A	A	-1	1	-A
$\chi_{104}^{(24)}$	1	A	-1	1	A	-A	-1	1	-1	1	-1	A	-A	1	1	-1	1	-1	-A	A	-A	A	-A	-1	1	A
$\chi_{104}^{(25)}$	1	-A	1	1	A	A	1	-1	-1	-1	-1	A	A	-1	-1	1	1	1	-A	-A	-1	-1	-1	-A	-A	1
$\chi_{104}^{(26)}$	1	A	1	1	-A	-A	1	-1	-1	-1	-1	-A	-A	-1	-1	1	1	1	A	A	-1	-1	-1	A	A	1
$\chi_{104}^{(27)}$	1	-A	1	1	A	A	1	-1	-1	-1	-1	A	A	-1	-1	1	1	1	-A	-A	1	1	1	A	A	-1
$\chi_{104}^{(28)}$	1	A	1	1	-A	-A	1	-1	-1	-1	-1	-A	-A	-1	-1	1	1	1	A	A	1	1	1	-A	-A	-1
$\chi_{104}^{(29)}$	1	A	-1	-1	-A	-A	-1	1	1	1	1	-A	-A	1	1	-1	-1	-1	A	A	-A	-A	-A	1	1	A
$\chi_{104}^{(30)}$	1	-A	-1	-1	A	A	-1	1	1	1	1	A	A	1	1	-1	-1	-1	-A	-A	A	A	A	1	1	-A
$\chi_{104}^{(31)}$	1	A	-1	-1	-A	-A	-1	1	1	1	1	-A	-A	1	1	-1	-1	-1	A	A	A	A	A	-1	-1	-A
$\chi_{104}^{(32)}$	1	-A	-1	-1	A	A	-1	1	1	1	1	A	A	1	1	-1	-1	-1	-A	-A	-A	-A	-A	-1	-1	A
$\chi_{104}^{(33)}$	1	B	-A	A	/B	-/B	-A	1	-1	-1	1	-/B	/B	1	-1	A	-A	A	B	-B	/B	-/B	/B	-1	1	B
$\chi_{104}^{(34)}$	1	-/B	A	-A	-B	B	A	1	-1	-1	1	B	-B	1	-1	-A	A	-A	-/B	/B	-B	B	-B	-1	1	-/B
$\chi_{104}^{(35)}$	1	/B	A	-A	B	-B	A	1	-1	-1	1	-B	B	1	-1	-A	A	-A	/B	-/B	B	-B	B	-1	1	/B
$\chi_{104}^{(36)}$	1	-B	-A	A	-/B	/B	-A	1	-1	-1	1	/B	-/B	1	-1	A	-A	A	-B	B	-/B	/B	-/B	-1	1	-B
$\chi_{104}^{(37)}$	1	B	-A	A	/B	-/B	-A	1	-1	-1	1	-/B	/B	1	-1	A	-A	A	B	-B	-/B	/B	-/B	1	-1	-B
$\chi_{104}^{(38)}$	1	-/B	A	-A	-B	B	A	1	-1	-1	1	B	-B	1	-1	-A	A	-A	-/B	/B	B	-B	B	1	-1	/B
$\chi_{104}^{(39)}$	1	/B	A	-A	B	-B	A	1	-1	-1	1	-B	B	1	-1	-A	A	-A	/B	-/B	-B	B	-B	1	-1	-/B
$\chi_{104}^{(40)}$	1	-B	-A	A	-/B	/B	-A	1	-1	-1	1	/B	-/B	1	-1	A	-A	A	-B	B	/B	-/B	/B	1	-1	B
$\chi_{104}^{(41)}$	1	-B	A	-A	-/B	/B	A	-1	1	1	-1	/B	-/B	-1	1	-A	A	-A	-B	B	-B	B	-B	-A	A	/B
$\chi_{104}^{(42)}$	1	/B	-A	A	B	-B	-A	-1	1	1	-1	-B	B	-1	1	A	-A	A	/B	-/B	/B	-/B	/B	A	-A	-B
$\chi_{104}^{(43)}$	1	-/B	-A	A	-B	B	-A	-1	1	1	-1	B	-B	-1	1	A	-A	A	-/B	/B	-/B	/B	-/B	A	-A	B
$\chi_{104}^{(44)}$	1	B	A	-A	/B	-/B	A	-1	1	1	-1	-/B	/B	-1	1	-A	A	-A	B	-B	B	-B	B	-A	A	-/B
$\chi_{104}^{(45)}$	1	-B	A	-A	-/B	/B	A	-1	1	1	-1	/B	-/B	-1	1	-A	A	-A	-B	B	B	-B	B	A	-A	-/B

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$\chi_{104}^{(46)}$	1	/B	-A	A	B	-B	-A	-1	1	1	-1	-B	B	-1	1	A	-A	A	/B	-/B	-/B	/B	-/B	-A	A	B
$\chi_{104}^{(47)}$	1	-/B	-A	A	-B	B	-A	-1	1	1	-1	B	-B	-1	1	A	-A	A	-/B	/B	/B	-/B	/B	-A	A	-B
$\chi_{104}^{(48)}$	1	B	A	-A	/B	-/B	A	-1	1	1	-1	-/B	/B	-1	1	-A	A	-A	B	-B	-B	B	-B	A	-A	/B
$\chi_{104}^{(49)}$	1	-B	-A	-A	/B	/B	-A	1	1	-1	-1	-/B	-/B	1	-1	A	A	A	B	B	/B	/B	/B	-1	-1	B
$\chi_{104}^{(50)}$	1	/B	A	A	-B	-B	A	1	1	-1	-1	B	B	1	-1	-A	-A	-A	-/B	-/B	-B	-B	-B	-1	-1	-/B
$\chi_{104}^{(51)}$	1	-/B	A	A	B	B	A	1	1	-1	-1	-B	-B	1	-1	-A	-A	-A	/B	/B	B	B	B	-1	-1	/B
$\chi_{104}^{(52)}$	1	B	-A	-A	-/B	-/B	-A	1	1	-1	-1	/B	/B	1	-1	A	A	A	-B	-B	-/B	-/B	-/B	-1	-1	-B
$\chi_{104}^{(53)}$	1	-B	-A	-A	/B	/B	-A	1	1	-1	-1	-/B	-/B	1	-1	A	A	A	B	B	-/B	-/B	-/B	1	1	-B
$\chi_{104}^{(54)}$	1	/B	A	A	-B	-B	A	1	1	-1	-1	B	B	1	-1	-A	-A	-A	-/B	-/B	B	B	B	1	1	/B
$\chi_{104}^{(55)}$	1	-/B	A	A	B	B	A	1	1	-1	-1	-B	-B	1	-1	-A	-A	-A	/B	/B	-B	-B	-B	1	1	-/B
$\chi_{104}^{(56)}$	1	B	-A	-A	-/B	-/B	-A	1	1	-1	-1	/B	/B	1	-1	A	A	A	-B	-B	/B	/B	/B	1	1	B
$\chi_{104}^{(57)}$	1	B	A	A	-/B	-/B	A	-1	-1	1	1	/B	/B	-1	1	-A	-A	-A	-B	-B	-B	-B	-B	-A	-A	/B
$\chi_{104}^{(58)}$	1	-/B	-A	-A	B	B	-A	-1	-1	1	1	-B	-B	-1	1	A	A	A	/B	/B	/B	/B	/B	A	A	-B
$\chi_{104}^{(59)}$	1	/B	-A	-A	-B	-B	-A	-1	-1	1	1	B	B	-1	1	A	A	A	-/B	-/B	-/B	-/B	-/B	A	A	B
$\chi_{104}^{(60)}$	1	-B	A	A	/B	/B	A	-1	-1	1	1	-/B	-/B	-1	1	-A	-A	-A	B	B	B	B	B	-A	-A	-/B
$\chi_{104}^{(61)}$	1	B	A	A	-/B	-/B	A	-1	-1	1	1	/B	/B	-1	1	-A	-A	-A	-B	-B	B	B	B	A	A	-/B
$\chi_{104}^{(62)}$	1	-/B	-A	-A	B	B	-A	-1	-1	1	1	-B	-B	-1	1	A	A	A	/B	/B	-/B	-/B	-/B	-A	-A	B
$\chi_{104}^{(63)}$	1	/B	-A	-A	-B	-B	-A	-1	-1	1	1	B	B	-1	1	A	A	A	-/B	-/B	/B	/B	/B	-A	-A	-B
$\chi_{104}^{(64)}$	1	-B	A	A	/B	/B	A	-1	-1	1	1	-/B	-/B	-1	1	-A	-A	-A	B	B	-B	-B	-B	A	A	/B
$\chi_{104}^{(65)}$	2	.	-2	.	.	.	2	-2	.	-2	.	.	.	2	2	-2	.	2	.	.	2	.	-2	.	.	2
$\chi_{104}^{(66)}$	2	.	-2	.	.	.	2	-2	.	-2	.	.	.	2	2	-2	.	2	.	.	-2	.	2	.	.	-2
$\chi_{104}^{(67)}$	2	.	-2	.	.	.	2	2	.	2	.	.	.	-2	-2	-2	.	2	.	.	-2	.	2	.	.	2
$\chi_{104}^{(68)}$	2	.	-2	.	.	.	2	2	.	2	.	.	.	-2	-2	-2	.	2	.	.	2	.	-2	.	.	-2
$\chi_{104}^{(69)}$	2	.	C	.	.	.	-C	2	.	-2	.	.	.	-2	2	-C	.	C	.	.	D	.	-D	.	.	-/D
$\chi_{104}^{(70)}$	2	.	C	.	.	.	-C	2	.	-2	.	.	.	-2	2	-C	.	C	.	.	-D	.	D	.	.	/D
$\chi_{104}^{(71)}$	2	.	-C	.	.	.	C	2	.	-2	.	.	.	-2	2	C	.	-C	.	.	-/D	.	/D	.	.	D
$\chi_{104}^{(72)}$	2	.	-C	.	.	.	C	2	.	-2	.	.	.	-2	2	C	.	-C	.	.	/D	.	-/D	.	.	-D
$\chi_{104}^{(73)}$	2	.	2	.	.	.	-2	-2	.	-2	.	.	.	2	2	2	.	-2	.	.	C	.	-C	.	.	-C
$\chi_{104}^{(74)}$	2	.	2	.	.	.	-2	-2	.	-2	.	.	.	2	2	2	.	-2	.	.	-C	.	C	.	.	C
$\chi_{104}^{(75)}$	2	.	C	.	.	.	-C	-2	.	2	.	.	.	2	-2	-C	.	C	.	.	-D	.	D	.	.	-/D
$\chi_{104}^{(76)}$	2	.	C	.	.	.	-C	-2	.	2	.	.	.	2	-2	-C	.	C	.	.	D	.	-D	.	.	/D
$\chi_{104}^{(77)}$	2	.	-C	.	.	.	C	-2	.	2	.	.	.	2	-2	C	.	-C	.	.	/D	.	-/D	.	.	D
$\chi_{104}^{(78)}$	2	.	-C	.	.	.	C	-2	.	2	.	.	.	2	-2	C	.	-C	.	.	-/D	.	/D	.	.	-D
$\chi_{104}^{(79)}$	2	.	2	.	.	.	-2	2	.	2	.	.	.	-2	-2	2	.	-2	.	.	-C	.	C	.	.	-C
$\chi_{104}^{(80)}$	2	.	2	.	.	.	-2	2	.	2	.	.	.	-2	-2	2	.	-2	.	.	C	.	-C	.	.	C

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$\chi_{104}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{104}^{(2)}$	-1	-1	1	1	-1	-1	1	1	1	-1	1	1	-1	-1	1	1	1	-1	-1	1	-1	1	1	1	-1	
$\chi_{104}^{(3)}$	1	1	-1	-1	1	1	-1	-1	-1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	1	-1	-1	-1	1	
$\chi_{104}^{(4)}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	-1	-1	-1	-1	1	1	1	
$\chi_{104}^{(5)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1	
$\chi_{104}^{(6)}$	1	-1	1	-1	1	-1	1	-1	-1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	-1	1	
$\chi_{104}^{(7)}$	-1	1	-1	1	-1	1	-1	1	1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	1	-1	
$\chi_{104}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{104}^{(9)}$	A	A	-A	A	-A	A	-A	-A	A	-A	A	-A	A	A	-A	-A	A	-A	-A	A	-A	A	A	-A	A	
$\chi_{104}^{(10)}$	-A	-A	A	-A	A	-A	A	A	-A	A	-A	A	-A	-A	A	A	-A	A	A	-A	A	-A	-A	A	-A	

				30										40										50	
$\chi_{104}^{(11)}$	-A	A	A	A	A	A	A	-A	A	-A	-A	-A	-A	A	A	-A	A	A	-A	-A	-A	-A	A	-A	-A
$\chi_{104}^{(12)}$	A	-A	-A	-A	-A	-A	-A	A	-A	A	A	A	A	-A	-A	A	-A	-A	A	A	A	A	-A	A	A
$\chi_{104}^{(13)}$	-A	A	-A	-A	A	A	-A	A	-A	-A	A	A	-A	A	-A	A	-A	A	-A	A	-A	A	-A	A	-A
$\chi_{104}^{(14)}$	A	-A	A	A	-A	-A	A	-A	A	A	-A	-A	A	-A	A	-A	A	-A	A	-A	A	-A	A	-A	A
$\chi_{104}^{(15)}$	A	A	A	-A	-A	A	A	A	-A	-A	-A	A	A	A	A	A	-A	-A	-A	-A	-A	-A	-A	A	A
$\chi_{104}^{(16)}$	-A	-A	-A	A	A	-A	-A	-A	A	A	A	-A	-A	-A	-A	-A	A	A	A	A	A	A	A	-A	-A
$\chi_{104}^{(17)}$	-1	A	-A	1	-1	A	-A	1	1	A	-A	1	-1	-A	A	1	-1	1	-A	A	-A	A	-1	-1	1
$\chi_{104}^{(18)}$	-1	-A	A	1	-1	-A	A	1	1	-A	A	1	-1	A	-A	1	-1	1	A	-A	A	-A	-1	-1	1
$\chi_{104}^{(19)}$	1	-A	A	-1	1	-A	A	-1	-1	-A	A	-1	1	A	-A	-1	1	-1	A	-A	A	-A	1	1	-1
$\chi_{104}^{(20)}$	1	A	-A	-1	1	A	-A	-1	-1	A	-A	-1	1	-A	A	-1	1	-1	-A	A	-A	A	1	1	-1
$\chi_{104}^{(21)}$	-A	-1	1	-A	A	-1	1	A	-A	1	-1	A	-A	1	-1	A	A	-A	-1	1	-1	1	A	-A	A
$\chi_{104}^{(22)}$	A	-1	1	A	-A	-1	1	-A	A	1	-1	-A	A	1	-1	-A	-A	A	-1	1	-1	1	-A	A	-A
$\chi_{104}^{(23)}$	A	1	-1	A	-A	1	-1	-A	A	-1	1	-A	A	-1	1	-A	-A	A	1	-1	1	-1	-A	A	-A
$\chi_{104}^{(24)}$	-A	1	-1	-A	A	1	-1	A	-A	-1	1	A	-A	-1	1	A	A	-A	1	-1	1	-1	A	-A	A
$\chi_{104}^{(25)}$	1	A	A	1	1	A	A	1	1	A	A	1	1	-A	-A	1	-1	-1	-A	-A	-A	-A	-1	-1	-1
$\chi_{104}^{(26)}$	1	-A	-A	1	1	-A	-A	1	1	-A	-A	1	1	A	A	1	-1	-1	A	A	A	A	-1	-1	-1
$\chi_{104}^{(27)}$	-1	-A	-A	-1	-1	-A	-A	-1	-1	-A	-A	-1	-1	A	A	-1	1	1	A	A	A	A	1	1	1
$\chi_{104}^{(28)}$	-1	A	A	-1	-1	A	A	-1	-1	A	A	-1	-1	-A	-A	-1	1	1	-A	-A	-A	-A	1	1	1
$\chi_{104}^{(29)}$	A	-1	-1	-A	-A	-1	-1	A	-A	1	1	A	A	1	1	A	A	A	-1	-1	-1	-1	A	-A	-A
$\chi_{104}^{(30)}$	-A	-1	-1	A	A	-1	-1	-A	A	1	1	-A	-A	1	1	-A	-A	-A	-1	-1	-1	-1	-A	A	A
$\chi_{104}^{(31)}$	-A	1	1	A	A	1	1	-A	A	-1	-1	-A	-A	-1	-1	-A	-A	-A	1	1	1	1	-A	A	A
$\chi_{104}^{(32)}$	A	1	1	-A	-A	1	1	A	-A	-1	-1	A	A	-1	-1	A	A	A	1	1	1	1	A	-A	-A
$\chi_{104}^{(33)}$	-B	-A	A	-/B	/B	A	-A	B	-/B	1	-1	-B	B	1	-1	-B	-B	B	A	-A	-A	A	-B	-/B	/B
$\chi_{104}^{(34)}$	/B	A	-A	B	-B	-A	A	-/B	B	1	-1	/B	-/B	1	-1	/B	/B	-/B	-A	A	A	-A	/B	B	-B
$\chi_{104}^{(35)}$	-/B	A	-A	-B	B	-A	A	/B	-B	1	-1	-/B	/B	1	-1	-/B	-/B	/B	-A	A	A	-A	-/B	-B	B
$\chi_{104}^{(36)}$	B	-A	A	/B	-/B	A	-A	-B	/B	1	-1	B	-B	1	-1	B	B	-B	A	-A	-A	A	B	/B	-/B
$\chi_{104}^{(37)}$	B	A	-A	/B	-/B	-A	A	-B	/B	-1	1	B	-B	-1	1	B	B	-B	-A	A	A	-A	B	/B	-/B
$\chi_{104}^{(38)}$	-/B	-A	A	-B	B	A	-A	/B	-B	-1	1	-/B	/B	-1	1	-/B	-/B	/B	A	-A	-A	A	-/B	-B	B
$\chi_{104}^{(39)}$	/B	-A	A	B	-B	A	-A	-/B	B	-1	1	/B	-/B	-1	1	/B	/B	-/B	A	-A	-A	A	/B	B	-B
$\chi_{104}^{(40)}$	-B	A	-A	-/B	/B	-A	A	B	-/B	-1	1	-B	B	-1	1	-B	-B	B	-A	A	A	-A	-B	-/B	/B
$\chi_{104}^{(41)}$	-/B	1	-1	-B	B	-1	1	/B	-B	-A	A	-/B	/B	A	-A	-/B	/B	-/B	1	-1	-1	1	/B	B	-B
$\chi_{104}^{(42)}$	B	1	-1	/B	-/B	-1	1	-B	/B	A	-A	B	-B	-A	A	B	-B	B	1	-1	-1	1	-B	-/B	/B
$\chi_{104}^{(43)}$	-B	1	-1	-/B	/B	-1	1	B	-/B	A	-A	-B	B	-A	A	-B	B	-B	1	-1	-1	1	B	/B	-/B
$\chi_{104}^{(44)}$	/B	1	-1	B	-B	-1	1	-/B	B	-A	A	/B	-/B	A	-A	/B	-/B	/B	1	-1	-1	1	-/B	-B	B
$\chi_{104}^{(45)}$	/B	-1	1	B	-B	1	-1	-/B	B	A	-A	/B	-/B	-A	A	/B	-/B	/B	-1	1	1	-1	-/B	-B	B
$\chi_{104}^{(46)}$	-B	-1	1	-/B	/B	1	-1	B	-/B	-A	A	-B	B	A	-A	-B	B	-B	-1	1	1	-1	B	/B	-/B
$\chi_{104}^{(47)}$	B	-1	1	/B	-/B	1	-1	-B	/B	-A	A	B	-B	A	-A	B	-B	B	-1	1	1	-1	-B	-/B	/B
$\chi_{104}^{(48)}$	-/B	-1	1	-B	B	1	-1	/B	-B	A	-A	-/B	/B	-A	A	-/B	/B	-/B	-1	1	1	-1	/B	B	-B
$\chi_{104}^{(49)}$	B	-A	-A	-/B	-/B	A	A	B	-/B	1	1	-B	-B	1	1	-B	-B	-B	A	A	-A	-A	-B	-/B	-/B
$\chi_{104}^{(50)}$	-/B	A	A	B	B	-A	-A	-/B	B	1	1	/B	/B	1	1	/B	/B	/B	-A	-A	A	A	/B	B	B
$\chi_{104}^{(51)}$	/B	A	A	-B	-B	-A	-A	/B	-B	1	1	-/B	-/B	1	1	-/B	-/B	-/B	-A	-A	A	A	-/B	-B	-B
$\chi_{104}^{(52)}$	-B	-A	-A	/B	/B	A	A	-B	/B	1	1	B	B	1	1	B	B	B	A	A	-A	-A	B	/B	/B
$\chi_{104}^{(53)}$	-B	A	A	/B	/B	-A	-A	-B	/B	-1	-1	B	B	-1	-1	B	B	B	-A	-A	A	A	B	/B	/B
$\chi_{104}^{(54)}$	/B	-A	-A	-B	-B	A	A	/B	-B	-1	-1	-/B	-/B	-1	-1	-/B	-/B	-/B	A	A	-A	-A	-/B	-B	-B
$\chi_{104}^{(55)}$	-/B	-A	-A	B	B	A	A	-/B	B	-1	-1	/B	/B	-1	-1	/B	/B	/B	A	A	-A	-A	/B	B	B

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$\chi_{104}^{(56)}$	B	A	A	-/B	-/B	-A	-A	B	-/B	-1	-1	-B	-B	-1	-1	-B	-B	-B	-A	-A	A	A	-B	-/B	-/B
$\chi_{104}^{(57)}$	/B	1	1	-B	-B	-1	-1	/B	-B	-A	-A	-/B	-/B	A	A	-/B	/B	/B	1	1	-1	-1	/B	B	B
$\chi_{104}^{(58)}$	-B	1	1	/B	/B	-1	-1	-B	/B	A	A	B	B	-A	-A	B	-B	-B	1	1	-1	-1	-B	-/B	-/B
$\chi_{104}^{(59)}$	B	1	1	-/B	-/B	-1	-1	B	-/B	A	A	-B	-B	-A	-A	-B	B	B	1	1	-1	-1	B	/B	/B
$\chi_{104}^{(60)}$	-/B	1	1	B	B	-1	-1	-/B	B	-A	-A	/B	/B	A	A	/B	-/B	-/B	1	1	-1	-1	-/B	-B	-B
$\chi_{104}^{(61)}$	-/B	-1	-1	B	B	1	1	-/B	B	A	A	/B	/B	-A	-A	/B	-/B	-/B	-1	-1	1	1	-/B	-B	-B
$\chi_{104}^{(62)}$	B	-1	-1	-/B	-/B	1	1	B	-/B	-A	-A	-B	-B	A	A	-B	B	B	-1	-1	1	1	B	/B	/B
$\chi_{104}^{(63)}$	-B	-1	-1	/B	/B	1	1	-B	/B	-A	-A	B	B	A	A	B	-B	-B	-1	-1	1	1	-B	-/B	-/B
$\chi_{104}^{(64)}$	/B	-1	-1	-B	-B	1	1	/B	-B	A	A	-/B	-/B	-A	-A	-/B	/B	/B	-1	-1	1	1	/B	B	B
$\chi_{104}^{(65)}$	.	.	.	2	.	.	.	-2	-2	.	.	2	.	.	.	-2	2	.	.	.	.	.	-2	2	.
$\chi_{104}^{(66)}$	.	.	.	-2	.	.	.	2	2	.	.	-2	.	.	.	2	-2	.	.	.	.	.	2	-2	.
$\chi_{104}^{(67)}$	.	.	.	2	.	.	.	-2	-2	.	.	2	.	.	.	-2	-2	.	.	.	.	.	2	-2	.
$\chi_{104}^{(68)}$	.	.	.	-2	.	.	.	2	2	.	.	-2	.	.	.	2	2	.	.	.	.	.	-2	2	.
$\chi_{104}^{(69)}$	.	.	.	D	.	.	.	/D	-D	.	.	/D	.	.	.	-/D	-/D	.	.	.	.	.	/D	-D	.
$\chi_{104}^{(70)}$	.	.	.	-D	.	.	.	-/D	D	.	.	-/D	.	.	.	/D	/D	.	.	.	.	.	-/D	D	.
$\chi_{104}^{(71)}$	.	.	.	-/D	.	.	.	-D	/D	.	.	-D	.	.	.	D	D	.	.	.	.	.	-D	/D	.
$\chi_{104}^{(72)}$	.	.	.	/D	.	.	.	D	-/D	.	.	D	.	.	.	-D	-D	.	.	.	.	.	D	-/D	.
$\chi_{104}^{(73)}$	.	.	.	C	.	.	.	C	-C	.	.	-C	.	.	.	C	-C	.	.	.	.	.	C	C	.
$\chi_{104}^{(74)}$	.	.	.	-C	.	.	.	-C	C	.	.	C	.	.	.	-C	C	.	.	.	.	.	-C	-C	.
$\chi_{104}^{(75)}$	.	.	.	D	.	.	.	/D	-D	.	.	/D	.	.	.	-/D	/D	.	.	.	.	.	-/D	D	.
$\chi_{104}^{(76)}$	.	.	.	-D	.	.	.	-/D	D	.	.	-/D	.	.	.	/D	-/D	.	.	.	.	.	/D	-D	.
$\chi_{104}^{(77)}$	.	.	.	-/D	.	.	.	-D	/D	.	.	-D	.	.	.	D	-D	.	.	.	.	.	D	-/D	.
$\chi_{104}^{(78)}$	.	.	.	/D	.	.	.	D	-/D	.	.	D	.	.	.	-D	D	.	.	.	.	.	-D	/D	.
$\chi_{104}^{(79)}$	.	.	.	C	.	.	.	C	-C	.	.	-C	.	.	.	C	C	.	.	.	.	.	-C	-C	.
$\chi_{104}^{(80)}$	.	.	.	-C	.	.	.	-C	C	.	.	C	.	.	.	-C	-C	.	.	.	.	.	C	C	.

									60										70						
$\chi_{104}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{104}^{(2)}$	1	-1	1	-1	1	1	1	-1	1	-1	1	1	-1	-1	1	1	1	-1	1	-1	-1	1	1	-1	1
$\chi_{104}^{(3)}$	-1	1	-1	1	-1	-1	-1	1	-1	-1	1	1	-1	-1	1	1	1	-1	1	-1	-1	1	1	-1	1
$\chi_{104}^{(4)}$	1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	-1	1
$\chi_{104}^{(5)}$	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	-1	1
$\chi_{104}^{(6)}$	-1	1	-1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	1	1
$\chi_{104}^{(7)}$	1	-1	1	1	-1	1	1	-1	1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	1	1
$\chi_{104}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{104}^{(9)}$	A	-A	-A	-A	A	A	A	-A	A	-1	1	1	-1	-1	1	1	1	-1	1	-1	-1	1	1	1	1
$\chi_{104}^{(10)}$	-A	A	A	A	-A	-A	-A	A	-A	-1	1	1	-1	-1	1	1	1	-1	1	-1	-1	1	1	1	1
$\chi_{104}^{(11)}$	A	A	-A	-A	-A	A	A	A	A	-1	-1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	1	1
$\chi_{104}^{(12)}$	-A	-A	A	A	A	-A	-A	-A	-A	-1	-1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	1	1
$\chi_{104}^{(13)}$	-A	A	A	-A	A	-A	-A	A	-A	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{104}^{(14)}$	A	-A	-A	A	-A	A	A	-A	A	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{104}^{(15)}$	-A	-A	A	-A	-A	-A	-A	-A	-A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1
$\chi_{104}^{(16)}$	A	A	-A	A	A	A	A	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1
$\chi_{104}^{(17)}$	-1	1	-1	A	-A	-1	1	-1	1	A	-A	-1	1	-A	A	-1	1	-1	1	-1	-A	A	1	-A	-1
$\chi_{104}^{(18)}$	-1	1	-1	-A	A	-1	1	-1	1	-A	A	-1	1	A	-A	-1	1	-1	1	-1	A	-A	1	A	-1
$\chi_{104}^{(19)}$	1	-1	1	-A	A	1	-1	1	-1	A	-A	-1	1	-A	A	-1	1	-1	1	-1	-A	A	1	-A	-1
$\chi_{104}^{(20)}$	1	-1	1	A	-A	1	-1	1	-1	-A	A	-1	1	A	-A	-1	1	-1	1	-1	A	-A	1	A	-1
$\chi_{104}^{(21)}$	A	-A	-A	1	-1	A	-A	A	-A	A	-A	-1	1	-A	A	-1	1	-1	1	-1	-A	A	1	A	-1
$\chi_{104}^{(22)}$	-A	A	A	1	-1	-A	A	-A	A	-A	A	-1	1	A	-A	-1	1	-1	1	-1	A	-A	1	-A	-1
$\chi_{104}^{(23)}$	-A	A	A	-1	1	-A	A	-A	A	A	-A	-1	1	-A	A	-1	1	-1	1	-1	-A	A	1	A	-1
$\chi_{104}^{(24)}$	A	-A	-A	-1	1	A	-A	A	-A	-A	A	-1	1	A	-A	-1	1	-1	1	-1	A	-A	1	-A	-1
$\chi_{104}^{(25)}$	-1	-1	-1	A	A	-1	1	1	1	A	A	-1	-1	-A	-A	-1	1	1	1	1	-A	-A	1	-A	-1
$\chi_{104}^{(26)}$	-1	-1	-1	-A	-A	-1	1	1	1	-A	-A	-1	-1	A	A	-1	1	1	1	1	A	A	1	A	-1
$\chi_{104}^{(27)}$	1	1	1	-A	-A	1	-1	-1	-1	A	A	-1	-1	-A	-A	-1	1	1	1	1	-A	-A	1	-A	-1
$\chi_{104}^{(28)}$	1	1	1	A	A	1	-1	-1	-1	-A	-A	-1	-1	A	A	-1	1	1	1	1	A	A	1	A	-1
$\chi_{104}^{(29)}$	A	A	-A	1	1	A	-A	-A	-A	A	A	-1	-1	-A	-A	-1	1	1	1	1	-A	-A	1	A	-1
$\chi_{104}^{(30)}$	-A	-A	A	1	1	-A	A	A	A	-A	-A	-1	-1	A	A	-1	1	1	1	1	A	A	1	-A	-1
$\chi_{104}^{(31)}$	-A	-A	A	-1	-1	-A	A	A	A	A	A	-1	-1	-A	-A	-1	1	1	1	1	-A	-A	1	A	-1
$\chi_{104}^{(32)}$	A	A	-A	-1	-1	A	-A	-A	-A	-A	-A	-1	-1	A	A	-1	1	1	1	1	A	A	1	-A	-1
$\chi_{104}^{(33)}$	B	-B	-/B	-1	1	B	/B	-/B	/B	B	-B	A	-A	-/B	/B	A	-1	1	1	-1	/B	-/B	-1	-B	-A
$\chi_{104}^{(34)}$	-/B	/B	B	-1	1	-/B	-B	B	-B	-/B	/B	-A	A	B	-B	-A	-1	1	1	-1	-B	B	-1	/B	A
$\chi_{104}^{(35)}$	/B	-/B	-B	-1	1	/B	B	-B	B	/B	-/B	-A	A	-B	B	-A	-1	1	1	-1	B	-B	-1	-/B	A
$\chi_{104}^{(36)}$	-B	B	/B	-1	1	-B	-/B	/B	-/B	-B	B	A	-A	/B	-/B	A	-1	1	1	-1	-/B	/B	-1	B	-A
$\chi_{104}^{(37)}$	-B	B	/B	1	-1	-B	-/B	/B	-/B	B	-B	A	-A	-/B	/B	A	-1	1	1	-1	/B	-/B	-1	-B	-A
$\chi_{104}^{(38)}$	/B	-/B	-B	1	-1	/B	B	-B	B	-/B	/B	-A	A	B	-B	-A	-1	1	1	-1	-B	B	-1	/B	A
$\chi_{104}^{(39)}$	-/B	/B	B	1	-1	-/B	-B	B	-B	/B	-/B	-A	A	-B	B	-A	-1	1	1	-1	B	-B	-1	-/B	A
$\chi_{104}^{(40)}$	B	-B	-/B	1	-1	B	/B	-/B	/B	-B	B	A	-A	/B	-/B	A	-1	1	1	-1	-/B	/B	-1	B	-A
$\chi_{104}^{(41)}$	-/B	/B	B	A	-A	-/B	B	-B	B	B	-B	A	-A	-/B	/B	A	-1	1	1	-1	/B	-/B	-1	B	-A
$\chi_{104}^{(42)}$	B	-B	-/B	-A	A	B	-/B	/B	-/B	-/B	/B	-A	A	B	-B	-A	-1	1	1	-1	-B	B	-1	-/B	A
$\chi_{104}^{(43)}$	-B	B	/B	-A	A	-B	/B	-/B	/B	/B	-/B	-A	A	-B	B	-A	-1	1	1	-1	B	-B	-1	/B	A
$\chi_{104}^{(44)}$	/B	-/B	-B	A	-A	/B	-B	B	-B	-B	B	A	-A	/B	-/B	A	-1	1	1	-1	-/B	/B	-1	-B	-A
$\chi_{104}^{(45)}$	/B	-/B	-B	-A	A	/B	-B	B	-B	B	-B	A	-A	-/B	/B	A	-1	1	1	-1	/B	-/B	-1	B	-A

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$\chi_{104}^{(46)}$	-B	B	/B	A	-A	-B	/B	-/B	/B	-/B	/B	-A	A	B	-B	-A	-1	1	1	-1	-B	B	-1	-/B	A
$\chi_{104}^{(47)}$	B	-B	-/B	A	-A	B	-/B	/B	-/B	/B	-/B	-A	A	-B	B	-A	-1	1	1	-1	B	-B	-1	/B	A
$\chi_{104}^{(48)}$	-/B	/B	B	-A	A	-/B	B	-B	B	-B	B	A	-A	/B	-/B	A	-1	1	1	-1	-/B	/B	-1	-B	-A
$\chi_{104}^{(49)}$	B	B	-/B	-1	-1	B	/B	/B	/B	B	B	A	A	-/B	-/B	A	-1	-1	1	1	/B	/B	-1	-B	-A
$\chi_{104}^{(50)}$	-/B	-/B	B	-1	-1	-/B	-B	-B	-B	-/B	-/B	-A	-A	B	B	-A	-1	-1	1	1	-B	-B	-1	/B	A
$\chi_{104}^{(51)}$	/B	/B	-B	-1	-1	/B	B	B	B	/B	/B	-A	-A	-B	-B	-A	-1	-1	1	1	B	B	-1	-/B	A
$\chi_{104}^{(52)}$	-B	-B	/B	-1	-1	-B	-/B	-/B	-/B	-B	-B	A	A	/B	/B	A	-1	-1	1	1	-/B	-/B	-1	B	-A
$\chi_{104}^{(53)}$	-B	-B	/B	1	1	-B	-/B	-/B	-/B	B	B	A	A	-/B	-/B	A	-1	-1	1	1	/B	/B	-1	-B	-A
$\chi_{104}^{(54)}$	/B	/B	-B	1	1	/B	B	B	B	-/B	-/B	-A	-A	B	B	-A	-1	-1	1	1	-B	-B	-1	/B	A
$\chi_{104}^{(55)}$	-/B	-/B	B	1	1	-/B	-B	-B	-B	/B	/B	-A	-A	-B	-B	-A	-1	-1	1	1	B	B	-1	-/B	A
$\chi_{104}^{(56)}$	B	B	-/B	1	1	B	/B	/B	/B	-B	-B	A	A	/B	/B	A	-1	-1	1	1	-/B	-/B	-1	B	-A
$\chi_{104}^{(57)}$	-/B	-/B	B	A	A	-/B	B	B	B	B	B	A	A	-/B	-/B	A	-1	-1	1	1	/B	/B	-1	B	-A
$\chi_{104}^{(58)}$	B	B	-/B	-A	-A	B	-/B	-/B	-/B	-/B	-/B	-A	-A	B	B	-A	-1	-1	1	1	-B	-B	-1	-/B	A
$\chi_{104}^{(59)}$	-B	-B	/B	-A	-A	-B	/B	/B	/B	/B	/B	-A	-A	-B	-B	-A	-1	-1	1	1	B	B	-1	/B	A
$\chi_{104}^{(60)}$	/B	/B	-B	A	A	/B	-B	-B	-B	-B	-B	A	A	/B	/B	A	-1	-1	1	1	-/B	-/B	-1	-B	-A
$\chi_{104}^{(61)}$	/B	/B	-B	-A	-A	/B	-B	-B	-B	B	B	A	A	-/B	-/B	A	-1	-1	1	1	/B	/B	-1	B	-A
$\chi_{104}^{(62)}$	-B	-B	/B	A	A	-B	/B	/B	/B	-/B	-/B	-A	-A	B	B	-A	-1	-1	1	1	-B	-B	-1	-/B	A
$\chi_{104}^{(63)}$	B	B	-/B	A	A	B	-/B	-/B	-/B	/B	/B	-A	-A	-B	-B	-A	-1	-1	1	1	B	B	-1	/B	A
$\chi_{104}^{(64)}$	-/B	-/B	B	-A	-A	-/B	B	B	B	-B	-B	A	A	/B	/B	A	-1	-1	1	1	-/B	-/B	-1	-B	-A
$\chi_{104}^{(65)}$	2	.	-2	.	.	-2	2	.	-2	.	.	-2	.	.	.	2	-2	.	-2	.	.	.	2	.	-2
$\chi_{104}^{(66)}$	-2	.	2	.	.	2	-2	.	2	.	.	-2	.	.	.	2	-2	.	-2	.	.	.	2	.	-2
$\chi_{104}^{(67)}$	-2	.	2	.	.	2	2	.	-2	.	.	2	.	.	.	-2	-2	.	-2	.	.	.	2	.	2
$\chi_{104}^{(68)}$	2	.	-2	.	.	-2	-2	.	2	.	.	2	.	.	.	-2	-2	.	-2	.	.	.	2	.	2
$\chi_{104}^{(69)}$	/D	.	D	.	.	-/D	-D	.	D	.	.	C	.	.	.	-C	2	.	-2	.	.	.	-2	.	-C
$\chi_{104}^{(70)}$	-/D	.	-D	.	.	/D	D	.	-D	.	.	C	.	.	.	-C	2	.	-2	.	.	.	-2	.	-C
$\chi_{104}^{(71)}$	-D	.	-/D	.	.	D	/D	.	-/D	.	.	-C	.	.	.	C	2	.	-2	.	.	.	-2	.	C
$\chi_{104}^{(72)}$	D	.	/D	.	.	-D	-/D	.	/D	.	.	-C	.	.	.	C	2	.	-2	.	.	.	-2	.	C
$\chi_{104}^{(73)}$	-C	.	-C	.	.	C	C	.	-C	.	.	2	.	.	.	-2	-2	.	-2	.	.	.	2	.	2
$\chi_{104}^{(74)}$	C	.	C	.	.	-C	-C	.	C	.	.	2	.	.	.	-2	-2	.	-2	.	.	.	2	.	2
$\chi_{104}^{(75)}$	-/D	.	-D	.	.	/D	-D	.	D	.	.	-C	.	.	.	C	2	.	-2	.	.	.	-2	.	C
$\chi_{104}^{(76)}$	/D	.	D	.	.	-/D	D	.	-D	.	.	-C	.	.	.	C	2	.	-2	.	.	.	-2	.	C
$\chi_{104}^{(77)}$	D	.	/D	.	.	-D	/D	.	-/D	.	.	C	.	.	.	-C	2	.	-2	.	.	.	-2	.	-C
$\chi_{104}^{(78)}$	-D	.	-/D	.	.	D	-/D	.	/D	.	.	C	.	.	.	-C	2	.	-2	.	.	.	-2	.	-C
$\chi_{104}^{(79)}$	C	.	C	.	.	-C	C	.	-C	.	.	-2	.	.	.	2	-2	.	-2	.	.	.	2	.	-2
$\chi_{104}^{(80)}$	-C	.	-C	.	.	C	-C	.	C	.	.	-2	.	.	.	2	-2	.	-2	.	.	.	2	.	-2

				80
$\chi_{104}^{(1)}$	1	1	1	1
$\chi_{104}^{(2)}$	-1	1	-1	1
$\chi_{104}^{(3)}$	-1	1	-1	1
$\chi_{104}^{(4)}$	1	1	-1	-1
$\chi_{104}^{(5)}$	1	1	-1	-1
$\chi_{104}^{(6)}$	-1	1	1	-1
$\chi_{104}^{(7)}$	-1	1	1	-1
$\chi_{104}^{(8)}$	1	1	1	1
$\chi_{104}^{(9)}$	-1	1	-1	1
$\chi_{104}^{(10)}$	-1	1	-1	1
$\chi_{104}^{(11)}$	1	1	-1	-1
$\chi_{104}^{(12)}$	1	1	-1	-1
$\chi_{104}^{(13)}$	-1	1	1	-1
$\chi_{104}^{(14)}$	-1	1	1	-1
$\chi_{104}^{(15)}$	1	1	1	1
$\chi_{104}^{(16)}$	1	1	1	1
$\chi_{104}^{(17)}$	1	-1	A	-A
$\chi_{104}^{(18)}$	1	-1	-A	A
$\chi_{104}^{(19)}$	1	-1	A	-A
$\chi_{104}^{(20)}$	1	-1	-A	A
$\chi_{104}^{(21)}$	1	-1	A	-A
$\chi_{104}^{(22)}$	1	-1	-A	A
$\chi_{104}^{(23)}$	1	-1	A	-A
$\chi_{104}^{(24)}$	1	-1	-A	A
$\chi_{104}^{(25)}$	-1	-1	A	A
$\chi_{104}^{(26)}$	-1	-1	-A	-A
$\chi_{104}^{(27)}$	-1	-1	A	A
$\chi_{104}^{(28)}$	-1	-1	-A	-A
$\chi_{104}^{(29)}$	-1	-1	A	A
$\chi_{104}^{(30)}$	-1	-1	-A	-A
$\chi_{104}^{(31)}$	-1	-1	A	A
$\chi_{104}^{(32)}$	-1	-1	-A	-A
$\chi_{104}^{(33)}$	A	-A	-B	B
$\chi_{104}^{(34)}$	-A	A	/B	-/B
$\chi_{104}^{(35)}$	-A	A	-/B	/B
$\chi_{104}^{(36)}$	A	-A	B	-B
$\chi_{104}^{(37)}$	A	-A	-B	B
$\chi_{104}^{(38)}$	-A	A	/B	-/B
$\chi_{104}^{(39)}$	-A	A	-/B	/B
$\chi_{104}^{(40)}$	A	-A	B	-B
$\chi_{104}^{(41)}$	A	-A	-B	B
$\chi_{104}^{(42)}$	-A	A	/B	-/B
$\chi_{104}^{(43)}$	-A	A	-/B	/B
$\chi_{104}^{(44)}$	A	-A	B	-B
$\chi_{104}^{(45)}$	A	-A	-B	B

$\chi_{104}^{(46)}$	-A	A	/B	-/B
$\chi_{104}^{(47)}$	-A	A	-/B	/B
$\chi_{104}^{(48)}$	A	-A	B	-B
$\chi_{104}^{(49)}$	-A	-A	-B	-B
$\chi_{104}^{(50)}$	A	A	/B	/B
$\chi_{104}^{(51)}$	A	A	-/B	-/B
$\chi_{104}^{(52)}$	-A	-A	B	B
$\chi_{104}^{(53)}$	-A	-A	-B	-B
$\chi_{104}^{(54)}$	A	A	/B	/B
$\chi_{104}^{(55)}$	A	A	-/B	-/B
$\chi_{104}^{(56)}$	-A	-A	B	B
$\chi_{104}^{(57)}$	-A	-A	-B	-B
$\chi_{104}^{(58)}$	A	A	/B	/B
$\chi_{104}^{(59)}$	A	A	-/B	-/B
$\chi_{104}^{(60)}$	-A	-A	B	B
$\chi_{104}^{(61)}$	-A	-A	-B	-B
$\chi_{104}^{(62)}$	A	A	/B	/B
$\chi_{104}^{(63)}$	A	A	-/B	-/B
$\chi_{104}^{(64)}$	-A	-A	B	B
$\chi_{104}^{(65)}$	.	2	.	.
$\chi_{104}^{(66)}$	.	2	.	.
$\chi_{104}^{(67)}$	.	-2	.	.
$\chi_{104}^{(68)}$	.	-2	.	.
$\chi_{104}^{(69)}$	.	C	.	.
$\chi_{104}^{(70)}$	.	C	.	.
$\chi_{104}^{(71)}$	.	-C	.	.
$\chi_{104}^{(72)}$	.	-C	.	.
$\chi_{104}^{(73)}$	.	-2	.	.
$\chi_{104}^{(74)}$	.	-2	.	.
$\chi_{104}^{(75)}$	.	-C	.	.
$\chi_{104}^{(76)}$	.	-C	.	.
$\chi_{104}^{(77)}$	.	C	.	.
$\chi_{104}^{(78)}$	.	C	.	.
$\chi_{104}^{(79)}$	.	2	.	.
$\chi_{104}^{(80)}$	.	2	.	.

where A = -E(4) = -ER(-1) = -i, B = E(8),C = -2*E(4) = -2*ER(-1) = -2i, D = 2*E(8)^3.

The generators of G^{s105} are:

$$\begin{pmatrix} 0 & 0 & 1 & 0 & -2 & 1 & 1 & 0 \\ -1 & 1 & 2 & 0 & -3 & 1 & 1 & 0 \\ -1 & 0 & 3 & 0 & -4 & 2 & 1 & 0 \\ -2 & 1 & 4 & 0 & -6 & 3 & 1 & 1 \\ -2 & 0 & 3 & 1 & -5 & 2 & 1 & 1 \\ -1 & 0 & 2 & 1 & -4 & 1 & 1 & 1 \\ -1 & 0 & 2 & 0 & -2 & 0 & 1 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & -2 & 1 & 0 & 0 \\ 1 & 1 & -1 & 1 & -3 & 2 & -1 & 1 \\ 1 & 2 & -1 & 1 & -4 & 2 & 0 & 0 \\ 1 & 2 & -1 & 2 & -6 & 3 & -1 & 1 \\ 0 & 2 & 0 & 1 & -5 & 3 & -1 & 1 \\ 0 & 2 & 0 & 0 & -3 & 2 & -1 & 1 \\ 0 & 2 & 0 & 0 & -2 & 1 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s105} are:

$$\begin{pmatrix} 1&0&0&0&0&0&0&0\\ 0&1&0&0&0&0&0&0\\ 0&0&1&0&0&0&0&0\\ 0&0&0&1&0&0&0&0\\ 0&0&0&0&1&0&0&0\\ 0&0&0&0&0&1&0&0\\ 0&0&0&0&0&0&1&0\\ 0&0&0&0&0&0&0&1 \end{pmatrix}, \begin{pmatrix} -2&-1&1&1&-1&1&0&-1\\ -3&-2&2&1&-1&1&0&0\\ -4&-2&2&2&-2&2&-1&0\\ -6&-3&3&3&-3&2&0&0\\ -5&-2&2&2&-2&2&0&0\\ -4&-1&2&1&-2&2&0&0\\ -3&-1&1&1&-1&1&0&0\\ -2&0&1&0&0&0&0&0 \end{pmatrix}, \begin{pmatrix} -2&0&1&0&0&0&-1&1\\ -2&-1&1&0&1&-1&-1&2\\ -3&0&1&0&1&-1&-2&3\\ -4&0&2&-1&2&-2&-2&4\\ -3&0&1&0&1&-2&-1&3\\ -2&0&1&0&1&-2&-1&2\\ -1&0&0&0&1&-1&-1&1\\ -1&0&0&0&1&-1&0&0 \end{pmatrix},$$

$$\begin{pmatrix} -2&1&1&0&-1&0&1&0\\ -2&1&1&0&-1&-1&2&1\\ -4&1&2&0&-1&-1&2&1\\ -5&2&2&0&-2&-1&3&2\\ -4&1&1&1&-2&-1&3&1\\ -3&1&1&1&-2&-1&2&1\\ -2&1&1&0&-1&-1&2&0\\ -1&1&0&0&0&-1&1&0 \end{pmatrix}, \begin{pmatrix} -1&-2&0&1&0&0&1&0\\ -2&-2&0&1&0&0&2&-1\\ -2&-3&-1&2&0&0&2&0\\ -3&-4&-1&3&-1&0&4&-1\\ -2&-3&-1&2&-1&1&3&-1\\ -2&-2&0&1&-1&1&2&0\\ -1&-2&0&1&-1&1&1&0\\ 0&-1&0&0&0&0&1&0 \end{pmatrix}, \begin{pmatrix} -1&-2&1&1&-1&1&0&0\\ -3&-2&2&1&-1&1&0&0\\ -3&-3&2&2&-2&2&-1&1\\ -5&-4&3&3&-3&2&0&1\\ -4&-3&2&2&-2&2&0&1\\ -3&-2&2&1&-2&2&0&1\\ -2&-2&1&1&-1&1&0&1\\ -1&-1&1&0&0&0&0&1 \end{pmatrix},$$

$$\begin{pmatrix} -1&-1&0&1&-1&1&1&-2\\ -1&-2&1&1&-2&2&1&-2\\ -1&-2&0&2&-3&3&1&-3\\ -2&-3&1&3&-5&4&2&-4\\ -2&-2&1&2&-4&4&1&-3\\ -2&-1&1&1&-3&3&1&-2\\ -2&-1&1&1&-2&2&0&-1\\ -1&0&1&0&-1&1&0&-1 \end{pmatrix}, \begin{pmatrix} -1&-1&1&0&0&0&-1&2\\ -2&-1&1&0&1&-1&-1&2\\ -2&-1&1&0&1&-1&-2&4\\ -3&-1&2&-1&2&-2&-2&5\\ -2&-1&1&0&1&-2&-1&4\\ -1&-1&1&0&1&-2&-1&3\\ 0&-1&0&0&1&-1&-1&2\\ 0&-1&0&0&1&-1&0&1 \end{pmatrix}, \begin{pmatrix} -1&0&-1&1&0&1&-1&0\\ -1&-1&-2&2&0&1&-1&1\\ -2&0&-2&2&0&1&-1&1\\ -3&-1&-3&3&0&2&-1&1\\ -2&-1&-3&3&0&1&0&0\\ -2&-1&-2&3&-1&1&0&0\\ -1&0&-2&2&-1&1&0&0\\ -1&0&-1&1&0&0&0&0 \end{pmatrix},$$

$$\begin{pmatrix} -1&0&0&0&0&0&0&0\\ 0&-1&0&0&0&0&0&0\\ 0&0&-1&0&0&0&0&0\\ 0&0&0&-1&0&0&0&0\\ 0&0&0&0&-1&0&0&0\\ 0&0&0&0&0&-1&0&0\\ 0&0&0&0&0&0&-1&0\\ 0&0&0&0&0&0&0&-1 \end{pmatrix}, \begin{pmatrix} -1&0&1&-1&2&-1&0&-1\\ -1&-1&1&-1&3&-2&1&-1\\ -2&-1&1&-1&4&-2&0&-1\\ -2&-1&1&-2&6&-3&1&-2\\ -1&-1&0&-1&5&-3&1&-2\\ -1&-1&0&0&3&-2&1&-2\\ -1&-1&0&0&2&-1&1&-2\\ -1&0&0&0&1&-1&1&-1 \end{pmatrix}, \begin{pmatrix} -1&0&1&0&-1&0&1&1\\ -2&1&1&0&-1&-1&2&1\\ -3&0&2&0&-1&-1&2&2\\ -4&1&2&0&-2&-1&3&3\\ -3&0&1&1&-2&-1&3&2\\ -2&0&1&1&-2&-1&2&2\\ -1&0&1&0&-1&-1&2&1\\ 0&0&0&0&0&-1&1&1 \end{pmatrix},$$

$$\begin{pmatrix} -1&0&1&0&-1&1&-1&0\\ -1&-1&2&0&-1&1&-2&1\\ -1&0&2&0&-2&2&-3&1\\ -2&0&4&-1&-2&2&-4&2\\ -2&0&3&0&-2&1&-3&2\\ -1&0&2&0&-1&0&-2&1\\ -1&0&1&0&0&0&-2&1\\ -1&0&1&0&0&0&-1&0 \end{pmatrix}, \begin{pmatrix} -1&1&-1&1&-1&0&0&1\\ 0&1&-2&1&-1&0&0&2\\ -1&2&-2&1&-1&-1&1&2\\ -1&2&-3&2&-2&-1&1&3\\ -1&2&-2&1&-2&0&1&2\\ -1&2&-1&0&-1&0&0&2\\ 0&2&-1&0&-1&0&0&1\\ 0&1&-1&0&0&0&0&0 \end{pmatrix}, \begin{pmatrix} -1&1&0&0&-1&0&2&-1\\ 0&1&0&0&-2&0&3&-1\\ -1&1&0&0&-2&0&4&-2\\ -1&2&0&0&-4&1&5&-2\\ -1&1&0&1&-4&1&4&-2\\ -1&1&0&1&-3&0&3&-1\\ -1&1&1&0&-2&0&2&-1\\ 0&1&0&0&-1&0&1&-1 \end{pmatrix},$$

$$\begin{pmatrix} -1&1&0&1&-2&1&-1&1\\ -1&1&0&1&-2&1&-2&3\\ -2&2&1&1&-3&1&-2&3\\ -3&2&1&2&-4&1&-3&5\\ -3&2&1&1&-3&1&-2&4\\ -2&2&1&0&-2&1&-2&3\\ -1&2&0&0&-1&0&-1&2\\ -1&1&0&0&0&0&-1&1 \end{pmatrix}, \begin{pmatrix} -1&1&1&-1&1&-2&1&0\\ 0&1&1&-2&2&-3&2&0\\ -1&1&1&-2&3&-4&2&0\\ 0&2&1&-3&4&-6&3&0\\ 0&2&1&-3&3&-4&2&0\\ 0&2&1&-3&3&-3&1&0\\ 0&1&1&-2&2&-2&1&-1\\ 0&1&0&-1&1&-1&1&-1 \end{pmatrix}, \begin{pmatrix} -1&1&1&0&-2&1&1&-1\\ -1&1&2&0&-3&1&1&0\\ -2&1&3&0&-4&2&1&-1\\ -3&2&4&0&-6&3&1&0\\ -3&1&3&1&-5&2&1&0\\ -2&1&2&1&-4&1&1&0\\ -2&1&2&0&-2&0&1&0\\ -1&1&1&0&-1&0&0&0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 2 & -1 & 0 & -1 & 0 & 0 \\ -1 & 1 & 3 & -2 & 1 & -2 & 0 & 1 \\ -2 & 1 & 4 & -2 & 1 & -2 & -1 & 1 \\ -2 & 2 & 5 & -3 & 2 & -4 & -1 & 2 \\ -2 & 2 & 4 & -3 & 2 & -3 & -1 & 2 \\ -1 & 2 & 3 & -3 & 2 & -2 & -1 & 1 \\ -1 & 1 & 2 & -2 & 2 & -2 & 0 & 0 \\ -1 & 1 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 1 & -1 & 1 & 1 & -1 \\ -1 & -2 & 1 & 1 & -2 & 2 & 1 & -2 \\ 0 & -3 & 0 & 2 & -3 & 3 & 1 & -2 \\ -1 & -4 & 1 & 3 & -5 & 4 & 2 & -3 \\ -1 & -3 & 1 & 2 & -4 & 4 & 1 & -2 \\ -1 & -2 & 1 & 1 & -3 & 3 & 1 & -1 \\ -1 & -2 & 1 & 1 & -2 & 2 & 0 & 0 \\ 0 & -1 & 1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 1 & 0 & 1 & -1 & 1 \\ -1 & -1 & -2 & 2 & 0 & 1 & -1 & 1 \\ -1 & -1 & -2 & 2 & 0 & 1 & -1 & 2 \\ -2 & -2 & -3 & 3 & 0 & 2 & -1 & 2 \\ -1 & -2 & -3 & 3 & 0 & 1 & 0 & 1 \\ -1 & -2 & -2 & 3 & -1 & 1 & 0 & 1 \\ 0 & -1 & -2 & 2 & -1 & 1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & -1 & -1 & 0 & 0 & 0 & 0 & 1 \\ 1 & -1 & 0 & -1 & 0 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 2 & -1 & 0 & 0 \\ -1 & -1 & 1 & -1 & 3 & -2 & 1 & -1 \\ -1 & -2 & 1 & -1 & 4 & -2 & 0 & 0 \\ -1 & -2 & 1 & -2 & 6 & -3 & 1 & -1 \\ 0 & -2 & 0 & -1 & 5 & -3 & 1 & -1 \\ 0 & -2 & 0 & 0 & 3 & -2 & 1 & -1 \\ 0 & -2 & 0 & 0 & 2 & -1 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & -1 & 1 & -1 & 1 \\ -1 & -1 & 2 & 0 & -1 & 1 & -2 & 1 \\ 0 & -1 & 2 & 0 & -2 & 2 & -3 & 2 \\ -1 & -1 & 4 & -1 & -2 & 2 & -4 & 3 \\ -1 & -1 & 3 & 0 & -2 & 1 & -3 & 3 \\ 0 & -1 & 2 & 0 & -1 & 0 & -2 & 2 \\ 0 & -1 & 1 & 0 & 0 & 0 & -2 & 2 \\ 0 & -1 & 1 & 0 & 0 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -2 & 1 & 0 & 1 & 0 & -1 \\ 1 & -1 & -3 & 2 & -1 & 2 & 0 & -1 \\ 1 & 0 & -4 & 2 & -1 & 2 & 1 & -2 \\ 1 & -1 & -5 & 3 & -2 & 4 & 1 & -3 \\ 1 & -1 & -4 & 3 & -2 & 3 & 1 & -3 \\ 0 & -1 & -3 & 3 & -2 & 2 & 1 & -2 \\ 0 & 0 & -2 & 2 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 2 & -1 & -1 & 0 \\ 1 & -1 & -2 & 0 & 3 & -1 & -1 & 0 \\ 1 & 0 & -3 & 0 & 4 & -2 & -1 & 0 \\ 2 & -1 & -4 & 0 & 6 & -3 & -1 & -1 \\ 2 & 0 & -3 & -1 & 5 & -2 & -1 & -1 \\ 1 & 0 & -2 & -1 & 4 & -1 & -1 & -1 \\ 1 & 0 & -2 & 0 & 2 & 0 & -1 & -1 \\ 0 & 0 & -1 & 0 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & -1 & 0 & 0 & 2 \\ 0 & 1 & -2 & 1 & -1 & 0 & 0 & 2 \\ 0 & 1 & -2 & 1 & -1 & -1 & 1 & 3 \\ 0 & 1 & -3 & 2 & -2 & -1 & 1 & 4 \\ 0 & 1 & -2 & 1 & -2 & 0 & 1 & 3 \\ 0 & 1 & -1 & 0 & -1 & 0 & 0 & 3 \\ 1 & 1 & -1 & 0 & -1 & 0 & 0 & 2 \\ 1 & 0 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 1 & -1 & 2 & -1 & -1 \\ 0 & -1 & -1 & 2 & -2 & 3 & -2 & 0 \\ 0 & 0 & -1 & 2 & -3 & 4 & -2 & -1 \\ -1 & -1 & -1 & 3 & -4 & 6 & -3 & -1 \\ -1 & -1 & -1 & 3 & -3 & 4 & -2 & -1 \\ -1 & -1 & -1 & 3 & -3 & 3 & -1 & -1 \\ -1 & 0 & -1 & 2 & -2 & 2 & -1 & 0 \\ -1 & 0 & 0 & 1 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -1 & 1 & -2 \\ 1 & -1 & 0 & -1 & 2 & -1 & 2 & -3 \\ 1 & -1 & -1 & -1 & 3 & -1 & 2 & -4 \\ 2 & -1 & -1 & -2 & 4 & -1 & 3 & -6 \\ 2 & -1 & -1 & -1 & 3 & -1 & 2 & -5 \\ 1 & -1 & -1 & 0 & 2 & -1 & 2 & -4 \\ 0 & -1 & 0 & 0 & 1 & 0 & 1 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 0 & 2 & 0 \\ 0 & 1 & 0 & 0 & -2 & 0 & 3 & -1 \\ 0 & 0 & 0 & 0 & -2 & 0 & 4 & -1 \\ 0 & 1 & 0 & 0 & -4 & 1 & 5 & -1 \\ 0 & 0 & 0 & 1 & -4 & 1 & 4 & -1 \\ 0 & 0 & 0 & 1 & -3 & 0 & 3 & 0 \\ 0 & 0 & 1 & 0 & -2 & 0 & 2 & 0 \\ 1 & 0 & 0 & 0 & -1 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 0 & 1 & 0 & -2 & 0 \\ 0 & -1 & 0 & 0 & 2 & 0 & -3 & 1 \\ 0 & 0 & 0 & 0 & 2 & 0 & -4 & 1 \\ 0 & -1 & 0 & 0 & 4 & -1 & -5 & 1 \\ 0 & 0 & 0 & -1 & 4 & -1 & -4 & 1 \\ 0 & 0 & 0 & -1 & 3 & 0 & -3 & 0 \\ 0 & 0 & -1 & 0 & 2 & 0 & -2 & 0 \\ -1 & 0 & 0 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 1 & -1 & 2 \\ -1 & 1 & 0 & 1 & -2 & 1 & -2 & 3 \\ -1 & 1 & 1 & 1 & -3 & 1 & -2 & 4 \\ -2 & 1 & 1 & 2 & -4 & 1 & -3 & 6 \\ -2 & 1 & 1 & 1 & -3 & 1 & -2 & 5 \\ -1 & 1 & 1 & 0 & -2 & 1 & -2 & 4 \\ 0 & 1 & 0 & 0 & -1 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -1 & 1 & -2 & 1 & 1 \\ 0 & 1 & 1 & -2 & 2 & -3 & 2 & 0 \\ 0 & 0 & 1 & -2 & 3 & -4 & 2 & 1 \\ 1 & 1 & 1 & -3 & 4 & -6 & 3 & 1 \\ 1 & 1 & 1 & -3 & 3 & -4 & 2 & 1 \\ 1 & 1 & 1 & -3 & 3 & -3 & 1 & 1 \\ 1 & 0 & 1 & -2 & 2 & -2 & 1 & 0 \\ 1 & 0 & 0 & -1 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & -1 & 1 & 0 & 0 & -2 \\ 0 & -1 & 2 & -1 & 1 & 0 & 0 & -2 \\ 0 & -1 & 2 & -1 & 1 & 1 & -1 & -3 \\ 0 & -1 & 3 & -2 & 2 & 1 & -1 & -4 \\ 0 & -1 & 2 & -1 & 2 & 0 & -1 & -3 \\ 0 & -1 & 1 & 0 & 1 & 0 & 0 & -3 \\ -1 & -1 & 1 & 0 & 1 & 0 & 0 & -2 \\ -1 & 0 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -2 & 1 & 1 & 0 \\ -1 & 1 & 2 & 0 & -3 & 1 & 1 & 0 \\ -1 & 0 & 3 & 0 & -4 & 2 & 1 & 0 \\ -2 & 1 & 4 & 0 & -6 & 3 & 1 & 1 \\ -2 & 0 & 3 & 1 & -5 & 2 & 1 & 1 \\ -1 & 0 & 2 & 1 & -4 & 1 & 1 & 1 \\ -1 & 0 & 2 & 0 & -2 & 0 & 1 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 2 & -1 & 0 & -1 & 0 & 1 \\ -1 & 1 & 3 & -2 & 1 & -2 & 0 & 1 \\ -1 & 0 & 4 & -2 & 1 & -2 & -1 & 2 \\ -1 & 1 & 5 & -3 & 2 & -4 & -1 & 3 \\ -1 & 1 & 4 & -3 & 2 & -3 & -1 & 3 \\ 0 & 1 & 3 & -3 & 2 & -2 & -1 & 2 \\ 0 & 0 & 2 & -2 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & 0 & 1 & -1 & 1 & -1 \\ 1 & 1 & -2 & 0 & 1 & -1 & 2 & -1 \\ 0 & 1 & -2 & 0 & 2 & -2 & 3 & -2 \\ 1 & 1 & -4 & 1 & 2 & -2 & 4 & -3 \\ 1 & 1 & -3 & 0 & 2 & -1 & 3 & -3 \\ 0 & 1 & -2 & 0 & 1 & 0 & 2 & -2 \\ 0 & 1 & -1 & 0 & 0 & 0 & 2 & -2 \\ 0 & 1 & -1 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & -2 & 1 & 0 & 0 \\ 1 & 1 & -1 & 1 & -3 & 2 & -1 & 1 \\ 1 & 2 & -1 & 1 & -4 & 2 & 0 & 0 \\ 1 & 2 & -1 & 2 & -6 & 3 & -1 & 1 \\ 0 & 2 & 0 & 1 & -5 & 3 & -1 & 1 \\ 0 & 2 & 0 & 0 & -3 & 2 & -1 & 1 \\ 0 & 2 & 0 & 0 & -2 & 1 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & 0 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 & 0 & 0 & -1 \\ -1 & 1 & 0 & 1 & 0 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 & 1 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 1 & -1 & 0 & -1 & 1 & -1 \\ 1 & 1 & 2 & -2 & 0 & -1 & 1 & -1 \\ 1 & 1 & 2 & -2 & 0 & -1 & 1 & -2 \\ 2 & 2 & 3 & -3 & 0 & -2 & 1 & -2 \\ 1 & 2 & 3 & -3 & 0 & -1 & 0 & -1 \\ 1 & 2 & 2 & -3 & 1 & -1 & 0 & -1 \\ 0 & 1 & 2 & -2 & 1 & -1 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & 1 & -1 & -1 & 1 \\ 1 & 2 & -1 & -1 & 2 & -2 & -1 & 2 \\ 0 & 3 & 0 & -2 & 3 & -3 & -1 & 2 \\ 1 & 4 & -1 & -3 & 5 & -4 & -2 & 3 \\ 1 & 3 & -1 & -2 & 4 & -4 & -1 & 2 \\ 1 & 2 & -1 & -1 & 3 & -3 & -1 & 1 \\ 1 & 2 & -1 & -1 & 2 & -2 & 0 & 0 \\ 0 & 1 & -1 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -2 & 1 & 0 & 1 & 0 & 0 \\ 1 & -1 & -3 & 2 & -1 & 2 & 0 & -1 \\ 2 & -1 & -4 & 2 & -1 & 2 & 1 & -1 \\ 2 & -2 & -5 & 3 & -2 & 4 & 1 & -2 \\ 2 & -2 & -4 & 3 & -2 & 3 & 1 & -2 \\ 1 & -2 & -3 & 3 & -2 & 2 & 1 & -1 \\ 1 & -1 & -2 & 2 & -2 & 2 & 0 & 0 \\ 1 & -1 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 0 & 2 & -1 & -1 & 1 \\ 1 & -1 & -2 & 0 & 3 & -1 & -1 & 0 \\ 2 & -1 & -3 & 0 & 4 & -2 & -1 & 1 \\ 3 & -2 & -4 & 0 & 6 & -3 & -1 & 0 \\ 3 & -1 & -3 & -1 & 5 & -2 & -1 & 0 \\ 2 & -1 & -2 & -1 & 4 & -1 & -1 & 0 \\ 2 & -1 & -2 & 0 & 2 & 0 & -1 & 0 \\ 1 & -1 & -1 & 0 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & -1 & 2 & -1 & 0 \\ 0 & -1 & -1 & 2 & -2 & 3 & -2 & 0 \\ 1 & -1 & -1 & 2 & -3 & 4 & -2 & 0 \\ 0 & -2 & -1 & 3 & -4 & 6 & -3 & 0 \\ 0 & -2 & -1 & 3 & -3 & 4 & -2 & 0 \\ 0 & -2 & -1 & 3 & -3 & 3 & -1 & 0 \\ 0 & -1 & -1 & 2 & -2 & 2 & -1 & 1 \\ 0 & -1 & 0 & 1 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 1 & -1 \\ 1 & -1 & 0 & -1 & 2 & -1 & 2 & -3 \\ 2 & -2 & -1 & -1 & 3 & -1 & 2 & -3 \\ 3 & -2 & -1 & -2 & 4 & -1 & 3 & -5 \\ 3 & -2 & -1 & -1 & 3 & -1 & 2 & -4 \\ 2 & -2 & -1 & 0 & 2 & -1 & 2 & -3 \\ 1 & -2 & 0 & 0 & 1 & 0 & 1 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & 0 & 1 & 0 & -2 & 1 \\ 0 & -1 & 0 & 0 & 2 & 0 & -3 & 1 \\ 1 & -1 & 0 & 0 & 2 & 0 & -4 & 2 \\ 1 & -2 & 0 & 0 & 4 & -1 & -5 & 2 \\ 1 & -1 & 0 & -1 & 4 & -1 & -4 & 2 \\ 1 & -1 & 0 & -1 & 3 & 0 & -3 & 1 \\ 1 & -1 & -1 & 0 & 2 & 0 & -2 & 1 \\ 0 & -1 & 0 & 0 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 1 & -1 & 1 & 0 & 0 & -1 \\ 0 & -1 & 2 & -1 & 1 & 0 & 0 & -2 \\ 1 & -2 & 2 & -1 & 1 & 1 & -1 & -2 \\ 1 & -2 & 3 & -2 & 2 & 1 & -1 & -3 \\ 1 & -2 & 2 & -1 & 2 & 0 & -1 & -2 \\ 1 & -2 & 1 & 0 & 1 & 0 & 0 & -2 \\ 0 & -2 & 1 & 0 & 1 & 0 & 0 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & -1 & 1 & 0 \\ 1 & 1 & -2 & 0 & 1 & -1 & 2 & -1 \\ 1 & 0 & -2 & 0 & 2 & -2 & 3 & -1 \\ 2 & 0 & -4 & 1 & 2 & -2 & 4 & -2 \\ 2 & 0 & -3 & 0 & 2 & -1 & 3 & -2 \\ 1 & 0 & -2 & 0 & 1 & 0 & 2 & -1 \\ 1 & 0 & -1 & 0 & 0 & 0 & 2 & -1 \\ 1 & 0 & -1 & 0 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 0 & 1 & 0 & -1 & -1 \\ 2 & -1 & -1 & 0 & 1 & 1 & -2 & -1 \\ 3 & 0 & -2 & 0 & 1 & 1 & -2 & -2 \\ 4 & -1 & -2 & 0 & 2 & 1 & -3 & -3 \\ 3 & 0 & -1 & -1 & 2 & 1 & -3 & -2 \\ 2 & 0 & -1 & -1 & 2 & 1 & -2 & -2 \\ 1 & 0 & -1 & 0 & 1 & 1 & -2 & -1 \\ 0 & 0 & 0 & 0 & 0 & 1 & -1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -2 & 1 & 0 & 1 \\ 1 & 1 & -1 & 1 & -3 & 2 & -1 & 1 \\ 2 & 1 & -1 & 1 & -4 & 2 & 0 & 1 \\ 2 & 1 & -1 & 2 & -6 & 3 & -1 & 2 \\ 1 & 1 & 0 & 1 & -5 & 3 & -1 & 2 \\ 1 & 1 & 0 & 0 & -3 & 2 & -1 & 2 \\ 1 & 1 & 0 & 0 & -2 & 1 & -1 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 0 & 1 & 0 & 0 & 1 & -1 \\ -2 & -2 & 0 & 1 & 0 & 0 & 2 & -1 \\ -3 & -2 & -1 & 2 & 0 & 0 & 2 & -1 \\ -4 & -3 & -1 & 3 & -1 & 0 & 4 & -2 \\ -3 & -2 & -1 & 2 & -1 & 1 & 3 & -2 \\ -3 & -1 & 0 & 1 & -1 & 1 & 2 & -1 \\ -2 & -1 & 0 & 1 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 1 & -1 & 0 & -1 & 1 & 0 \\ 1 & 1 & 2 & -2 & 0 & -1 & 1 & -1 \\ 2 & 0 & 2 & -2 & 0 & -1 & 1 & -1 \\ 3 & 1 & 3 & -3 & 0 & -2 & 1 & -1 \\ 2 & 1 & 3 & -3 & 0 & -1 & 0 & 0 \\ 2 & 1 & 2 & -3 & 1 & -1 & 0 & 0 \\ 1 & 0 & 2 & -2 & 1 & -1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & 0 & 1 & -2 \\ 2 & 1 & -1 & 0 & -1 & 1 & 1 & -2 \\ 2 & 1 & -1 & 0 & -1 & 1 & 2 & -4 \\ 3 & 1 & -2 & 1 & -2 & 2 & 2 & -5 \\ 2 & 1 & -1 & 0 & -1 & 2 & 1 & -4 \\ 1 & 1 & -1 & 0 & -1 & 2 & 1 & -3 \\ 0 & 1 & 0 & 0 & -1 & 1 & 1 & -2 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & -1 & 2 \\ 1 & 2 & -1 & -1 & 2 & -2 & -1 & 2 \\ 1 & 2 & 0 & -2 & 3 & -3 & -1 & 3 \\ 2 & 3 & -1 & -3 & 5 & -4 & -2 & 4 \\ 2 & 2 & -1 & -2 & 4 & -4 & -1 & 3 \\ 2 & 1 & -1 & -1 & 3 & -3 & -1 & 2 \\ 2 & 1 & -1 & -1 & 2 & -2 & 0 & 1 \\ 1 & 0 & -1 & 0 & 1 & -1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 2 & -1 & -1 & 1 & -1 & 0 & 0 \\ 3 & 2 & -2 & -1 & 1 & -1 & 0 & 0 \\ 3 & 3 & -2 & -2 & 2 & -2 & 1 & -1 \\ 5 & 4 & -3 & -3 & 3 & -2 & 0 & -1 \\ 4 & 3 & -2 & -2 & 2 & -2 & 0 & -1 \\ 3 & 2 & -2 & -1 & 2 & -2 & 0 & -1 \\ 2 & 2 & -1 & -1 & 1 & -1 & 0 & -1 \\ 1 & 1 & -1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 2 & 0 & -1 & 0 & 0 & -1 & 0 \\ 2 & 2 & 0 & -1 & 0 & 0 & -2 & 1 \\ 2 & 3 & 1 & -2 & 0 & 0 & -2 & 0 \\ 3 & 4 & 1 & -3 & 1 & 0 & -4 & 1 \\ 2 & 3 & 1 & -2 & 1 & -1 & -3 & 1 \\ 2 & 2 & 0 & -1 & 1 & -1 & -2 & 0 \\ 1 & 2 & 0 & -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -1 & 0 & 1 & 0 & -1 & 0 \\ 2 & -1 & -1 & 0 & 1 & 1 & -2 & -1 \\ 4 & -1 & -2 & 0 & 1 & 1 & -2 & -1 \\ 5 & -2 & -2 & 0 & 2 & 1 & -3 & -2 \\ 4 & -1 & -1 & -1 & 2 & 1 & -3 & -1 \\ 3 & -1 & -1 & -1 & 2 & 1 & -2 & -1 \\ 2 & -1 & -1 & 0 & 1 & 1 & -2 & 0 \\ 1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 2 & 0 & -1 & 0 & 0 & 0 & 1 & -1 \\ 2 & 1 & -1 & 0 & -1 & 1 & 1 & -2 \\ 3 & 0 & -1 & 0 & -1 & 1 & 2 & -3 \\ 4 & 0 & -2 & 1 & -2 & 2 & 2 & -4 \\ 3 & 0 & -1 & 0 & -1 & 2 & 1 & -3 \\ 2 & 0 & -1 & 0 & -1 & 2 & 1 & -2 \\ 1 & 0 & 0 & 0 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 1 & -1 & -1 & 1 & -1 & 0 & 1 \\ 3 & 2 & -2 & -1 & 1 & -1 & 0 & 0 \\ 4 & 2 & -2 & -2 & 2 & -2 & 1 & 0 \\ 6 & 3 & -3 & -3 & 3 & -2 & 0 & 0 \\ 5 & 2 & -2 & -2 & 2 & -2 & 0 & 0 \\ 4 & 1 & -2 & -1 & 2 & -2 & 0 & 0 \\ 3 & 1 & -1 & -1 & 1 & -1 & 0 & 0 \\ 2 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 1 & 0 & -1 & 0 & 0 & -1 & 1 \\ 2 & 2 & 0 & -1 & 0 & 0 & -2 & 1 \\ 3 & 2 & 1 & -2 & 0 & 0 & -2 & 1 \\ 4 & 3 & 1 & -3 & 1 & 0 & -4 & 2 \\ 3 & 2 & 1 & -2 & 1 & -1 & -3 & 2 \\ 3 & 1 & 0 & -1 & 1 & -1 & -2 & 1 \\ 2 & 1 & 0 & -1 & 1 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}.$$

The character table of $G^{s_{105}}$:

									10											20				
$\chi_{105}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{105}^{(2)}$	1	-1	1	1	1	1	-1	-1	1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	-1	-1
$\chi_{105}^{(3)}$	1	-1	-1	-1	1	1	-1	1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{105}^{(4)}$	1	1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	-1	1	1	-1	1	1	-1	-1	-1
$\chi_{105}^{(5)}$	1	-1	C	C	/C	1	-C	-C	C	1	C	-C	/C	-/C	1	-1	-/C	/C	-1	C	-C	-1	-C
$\chi_{105}^{(6)}$	1	-1	/C	/C	C	1	-/C	-/C	/C	1	/C	-/C	C	-C	1	-1	-C	C	-1	/C	-/C	-1	-/C
$\chi_{105}^{(7)}$	1	-1	-C	-C	/C	1	-C	C	-C	-1	-C	C	-/C	-/C	-1	-1	-/C	-/C	-1	C	C	1	C
$\chi_{105}^{(8)}$	1	-1	-/C	-/C	C	1	-/C	/C	-/C	-1	-/C	/C	-C	-C	-1	-1	-C	-C	-1	/C	/C	1	/C
$\chi_{105}^{(9)}$	1	1	-/C	-/C	C	1	/C	-/C	-/C	-1	-/C	-/C	-C	C	-1	1	C	-C	1	/C	-/C	-1	-/C
$\chi_{105}^{(10)}$	1	1	-C	-C	/C	1	C	-C	-C	-1	-C	-C	-/C	/C	-1	1	/C	-/C	1	C	-C	-1	-C
$\chi_{105}^{(11)}$	1	1	/C	/C	C	1	/C	/C	/C	1	/C	/C	C	C	1	1	C	C	1	/C	/C	1	/C
$\chi_{105}^{(12)}$	1	1	C	C	/C	1	C	C	C	1	C	C	/C	/C	1	1	/C	/C	1	C	C	1	C
$\chi_{105}^{(13)}$	1	A	1	-/A	-A	-A	A	-1	-/B	1	-B	/A	1	B	-/A	B	/B	-/A	/B	-A	/B	-1	B
$\chi_{105}^{(14)}$	1	B	1	-/B	-B	-B	B	-1	-A	1	-/A	/B	1	/A	-/B	/A	A	-/B	A	-B	A	-1	/A
$\chi_{105}^{(15)}$	1	/B	1	-B	-/B	-/B	/B	-1	-/A	1	-A	B	1	A	-B	A	/A	-B	/A	-/B	/A	-1	A
$\chi_{105}^{(16)}$	1	/A	1	-A	-/A	-/A	/A	-1	-B	1	-/B	A	1	/B	-A	/B	B	-A	B	-/A	B	-1	/B
$\chi_{105}^{(17)}$	1	A	-1	/A	-A	-A	A	1	/B	-1	B	-/A	-1	B	/A	B	/B	/A	/B	-A	-/B	1	-B
$\chi_{105}^{(18)}$	1	B	-1	/B	-B	-B	B	1	A	-1	/A	-/B	-1	/A	/B	/A	A	/B	A	-B	-A	1	-/A
$\chi_{105}^{(19)}$	1	/B	-1	B	-/B	-/B	/B	1	/A	-1	A	-B	-1	A	B	A	/A	B	/A	-/B	-/A	1	-A
$\chi_{105}^{(20)}$	1	/A	-1	A	-/A	-/A	/A	1	B	-1	/B	-A	-1	/B	A	/B	B	A	B	-/A	-B	1	-/B
$\chi_{105}^{(21)}$	1	-/A	-1	A	-/A	-/A	-/A	-1	B	-1	/B	A	-1	-/B	A	-/B	-B	A	-B	-/A	B	-1	/B
$\chi_{105}^{(22)}$	1	-/B	-1	B	-/B	-/B	-/B	-1	/A	-1	A	B	-1	-A	B	-A	-/A	B	-/A	-/B	/A	-1	A
$\chi_{105}^{(23)}$	1	-B	-1	/B	-B	-B	-B	-1	A	-1	/A	/B	-1	-/A	/B	-/A	-A	/B	-A	-B	A	-1	/A
$\chi_{105}^{(24)}$	1	-A	-1	/A	-A	-A	-A	-1	/B	-1	B	/A	-1	-B	/A	-B	-/B	/A	-/B	-A	/B	-1	B
$\chi_{105}^{(25)}$	1	-/A	1	-A	-/A	-/A	-/A	1	-B	1	-/B	-A	1	-/B	-A	-/B	-B	-A	-B	-/A	-B	1	-/B
$\chi_{105}^{(26)}$	1	-/B	1	-B	-/B	-/B	-/B	1	-/A	1	-A	-B	1	-A	-B	-A	-/A	-B	-/A	-/B	-/A	1	-A
$\chi_{105}^{(27)}$	1	-B	1	-/B	-B	-B	-B	1	-A	1	-/A	-/B	1	-/A	-/B	-/A	-A	-/B	-A	-B	-A	1	-/A
$\chi_{105}^{(28)}$	1	-A	1	-/A	-A	-A	-A	1	-/B	1	-B	-/A	1	-B	-/A	-B	-/B	-/A	-/B	-A	-/B	1	-B
$\chi_{105}^{(29)}$	1	B	/C	D	/D	-B	-F	-/C	G	1	/E	-D	C	-/G	-/B	/A	-E	/F	A	F	-G	-1	-/E
$\chi_{105}^{(30)}$	1	/A	C	E	/E	-/A	-/G	-C	/D	1	/F	-E	/C	-D	-A	/B	-F	G	B	/G	-/D	-1	-/F
$\chi_{105}^{(31)}$	1	/B	/C	F	/F	-/B	-D	-/C	/E	1	G	-F	C	-E	-B	A	-/G	/D	/A	D	-/E	-1	-G
$\chi_{105}^{(32)}$	1	/A	/C	G	/G	-/A	-/E	-/C	F	1	D	-G	C	-/F	-A	/B	-/D	E	B	/E	-F	-1	-D
$\chi_{105}^{(33)}$	1	A	C	/G	G	-A	-E	-C	/F	1	/D	-/G	/C	-F	-/A	B	-D	/E	/B	E	-/F	-1	-/D
$\chi_{105}^{(34)}$	1	B	C	/F	F	-B	-/D	-C	E	1	/G	-/F	/C	-/E	-/B	/A	-G	D	A	/D	-E	-1	-/G
$\chi_{105}^{(35)}$	1	A	/C	/E	E	-A	-G	-/C	D	1	F	-/E	C	-/D	-/A	B	-/F	/G	/B	G	-D	-1	-F
$\chi_{105}^{(36)}$	1	/B	C	/D	D	-/B	-/F	-C	/G	1	E	-/D	/C	-G	-B	A	-/E	F	/A	/F	-/G	-1	-E
$\chi_{105}^{(37)}$	1	B	-/C	-D	/D	-B	-F	/C	-G	-1	-/E	D	-C	-/G	/B	/A	-E	-/F	A	F	G	1	/E
$\chi_{105}^{(38)}$	1	/A	-C	-E	/E	-/A	-/G	C	-/D	-1	-/F	E	-/C	-D	A	/B	-F	-G	B	/G	/D	1	/F
$\chi_{105}^{(39)}$	1	/B	-/C	-F	/F	-/B	-D	/C	-/E	-1	-G	F	-C	-E	B	A	-/G	-/D	/A	D	/E	1	G
$\chi_{105}^{(40)}$	1	/A	-/C	-G	/G	-/A	-/E	/C	-F	-1	-D	G	-C	-/F	A	/B	-/D	-E	B	/E	F	1	D
$\chi_{105}^{(41)}$	1	A	-C	-/G	G	-A	-E	C	-/F	-1	-/D	/G	-/C	-F	/A	B	-D	-/E	/B	E	/F	1	/D
$\chi_{105}^{(42)}$	1	B	-C	-/F	F	-B	-/D	C	-E	-1	-/G	/F	-/C	-/E	/B	/A	-G	-D	A	/D	E	1	/G
$\chi_{105}^{(43)}$	1	A	-/C	-/E	E	-A	-G	/C	-D	-1	-F	/E	-C	-/D	/A	B	-/F	-/G	/B	G	D	1	F
$\chi_{105}^{(44)}$	1	/B	-C	-/D	D	-/B	-/F	C	-/G	-1	-E	/D	-/C	-G	B	A	-/E	-F	/A	/F	/G	1	E
$\chi_{105}^{(45)}$	1	-/B	-C	-/D	D	-/B	/F	-C	-/G	-1	-E	-/D	-/C	G	B	-A	/E	-F	-/A	/F	-/G	-1	-E

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$\chi_{105}^{(46)}$	1	-A	-/C	-/E	E	-A	G	-/C	-D	-1	-F	-/E	-C	/D	/A	-B	/F	-/G	-/B	G	-D	-1	-F	
$\chi_{105}^{(47)}$	1	-B	-C	-/F	F	-B	/D	-C	-E	-1	-/G	-/F	-/C	/E	/B	-/A	G	-D	-A	/D	-E	-1	-/G	
$\chi_{105}^{(48)}$	1	-A	-C	-/G	G	-A	E	-C	-/F	-1	-/D	-/G	-/C	F	/A	-B	D	-/E	-/B	E	-/F	-1	-/D	
$\chi_{105}^{(49)}$	1	-/A	-/C	-G	/G	-/A	/E	-/C	-F	-1	-D	-G	-C	/F	A	-/B	/D	-E	-B	/E	-F	-1	-D	
$\chi_{105}^{(50)}$	1	-/B	-/C	-F	/F	-/B	D	-/C	-/E	-1	-G	-F	-C	E	B	-A	/G	-/D	-/A	D	-/E	-1	-G	
$\chi_{105}^{(51)}$	1	-/A	-C	-E	/E	-/A	/G	-C	-/D	-1	-/F	-E	-/C	D	A	-/B	F	-G	-B	/G	-/D	-1	-/F	
$\chi_{105}^{(52)}$	1	-B	-/C	-D	/D	-B	F	-/C	-G	-1	-/E	-D	-C	/G	/B	-/A	E	-/F	-A	F	-G	-1	-/E	
$\chi_{105}^{(53)}$	1	-/B	C	/D	D	-/B	/F	C	/G	1	E	/D	/C	G	-B	-A	/E	F	-/A	/F	/G	1	E	
$\chi_{105}^{(54)}$	1	-A	/C	/E	E	-A	G	/C	D	1	F	/E	C	/D	-/A	-B	/F	/G	-/B	G	D	1	F	
$\chi_{105}^{(55)}$	1	-B	C	/F	F	-B	/D	C	E	1	/G	/F	/C	/E	-/B	-/A	G	D	-A	/D	E	1	/G	
$\chi_{105}^{(56)}$	1	-A	C	/G	G	-A	E	C	/F	1	/D	/G	/C	F	-/A	-B	D	/E	-/B	E	/F	1	/D	
$\chi_{105}^{(57)}$	1	-/A	/C	G	/G	-/A	/E	/C	F	1	D	G	C	/F	-A	-/B	/D	E	-B	/E	F	1	D	
$\chi_{105}^{(58)}$	1	-/B	/C	F	/F	-/B	D	/C	/E	1	G	F	C	E	-B	-A	/G	/D	-/A	D	/E	1	G	
$\chi_{105}^{(59)}$	1	-/A	C	E	/E	-/A	/G	C	/D	1	/F	E	/C	D	-A	-/B	F	G	-B	/G	/D	1	/F	
$\chi_{105}^{(60)}$	1	-B	/C	D	/D	-B	F	/C	G	1	/E	D	C	/G	-/B	-/A	E	/F	-A	F	G	1	/E	

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$\chi_{105}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{105}^{(2)}$	-1	1	-1	1	1	1	-1	-1	1	1	1	-1	1	-1	-1	-1	-1	1	-1	1	-1	-1	1	
$\chi_{105}^{(3)}$	1	-1	-1	1	-1	-1	1	-1	1	1	-1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	
$\chi_{105}^{(4)}$	-1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1	1	1	1	1	-1	-1	1	-1	-1	1	
$\chi_{105}^{(5)}$	-/C	1	-/C	/C	/C	1	-1	-1	1	/C	/C	-/C	1	-/C	-C	-1	-C	C	-1	/C	-/C	-1	1	
$\chi_{105}^{(6)}$	-C	1	-C	C	C	1	-1	-1	1	C	C	-C	1	-C	-/C	-1	-/C	/C	-1	C	-C	-1	1	
$\chi_{105}^{(7)}$	/C	-1	-/C	/C	-/C	-1	1	-1	1	/C	-/C	/C	1	-/C	-C	-1	-C	-C	1	/C	/C	1	1	
$\chi_{105}^{(8)}$	C	-1	-C	C	-C	-1	1	-1	1	C	-C	C	1	-C	-/C	-1	-/C	-/C	1	C	C	1	1	
$\chi_{105}^{(9)}$	-C	-1	C	C	-C	-1	-1	1	1	C	-C	-C	1	C	/C	1	/C	-/C	-1	C	-C	-1	1	
$\chi_{105}^{(10)}$	-/C	-1	/C	/C	-/C	-1	-1	1	1	/C	-/C	-/C	1	/C	C	1	C	-C	-1	/C	-/C	-1	1	
$\chi_{105}^{(11)}$	C	1	C	C	C	1	1	1	1	C	C	C	1	C	/C	1	/C	/C	1	C	C	1	1	
$\chi_{105}^{(12)}$	/C	1	/C	/C	/C	1	1	1	1	/C	/C	/C	1	/C	C	1	C	C	1	/C	/C	1	1	
$\chi_{105}^{(13)}$	-1	-/B	/A	-B	-/B	-B	/A	/A	-B	-/B	-B	/A	-/B	-1	B	-1	/B	-A	/B	-/A	/B	B	-/A	
$\chi_{105}^{(14)}$	-1	-A	/B	-/A	-A	-/A	/B	/B	-/A	-A	-/A	/B	-A	-1	/A	-1	A	-B	A	-/B	A	/A	-/B	
$\chi_{105}^{(15)}$	-1	-/A	B	-A	-/A	-A	B	B	-A	-/A	-A	B	-/A	-1	A	-1	/A	-/B	/A	-B	/A	A	-B	
$\chi_{105}^{(16)}$	-1	-B	A	-/B	-B	-/B	A	A	-/B	-B	-/B	A	-B	-1	/B	-1	B	-/A	B	-A	B	/B	-A	
$\chi_{105}^{(17)}$	1	/B	/A	-B	/B	B	-/A	/A	-B	-/B	B	-/A	-/B	-1	B	-1	/B	A	-/B	-/A	-/B	-B	-/A	
$\chi_{105}^{(18)}$	1	A	/B	-/A	A	/A	-/B	/B	-/A	-A	/A	-/B	-A	-1	/A	-1	A	B	-A	-/B	-A	-/A	-/B	
$\chi_{105}^{(19)}$	1	/A	B	-A	/A	A	-B	B	-A	-/A	A	-B	-/A	-1	A	-1	/A	/B	-/A	-B	-/A	-A	-B	
$\chi_{105}^{(20)}$	1	B	A	-/B	B	/B	-A	A	-/B	-B	/B	-A	-B	-1	/B	-1	B	/A	-B	-A	-B	-/B	-A	
$\chi_{105}^{(21)}$	-1	B	-A	-/B	B	/B	A	-A	-/B	-B	/B	A	-B	1	-/B	1	-B	/A	B	-A	B	/B	-A	
$\chi_{105}^{(22)}$	-1	/A	-B	-A	/A	A	B	-B	-A	-/A	A	B	-/A	1	-A	1	-/A	/B	/A	-B	/A	A	-B	
$\chi_{105}^{(23)}$	-1	A	-/B	-/A	A	/A	/B	-/B	-/A	-A	/A	/B	-A	1	-/A	1	-A	B	A	-/B	A	/A	-/B	
$\chi_{105}^{(24)}$	-1	/B	-/A	-B	/B	B	/A	-/A	-B	-/B	B	/A	-/B	1	-B	1	-/B	A	/B	-/A	/B	B	-/A	
$\chi_{105}^{(25)}$	1	-B	-A	-/B	-B	-/B	-A	-A	-/B	-B	-/B	-A	-B	1	-/B	1	-B	-/A	-B	-A	-B	-/B	-A	
$\chi_{105}^{(26)}$	1	-/A	-B	-A	-/A	-A	-B	-B	-A	-/A	-A	-B	-/A	1	-A	1	-/A	-/B	-/A	-B	-/A	-A	-B	
$\chi_{105}^{(27)}$	1	-A	-/B	-/A	-A	-/A	-/B	-/B	-/A	-A	-/A	-/B	-A	1	-/A	1	-A	-B	-A	-/B	-A	-/A	-/B	
$\chi_{105}^{(28)}$	1	-/B	-/A	-B	-/B	-B	-/A	-/A	-B	-/B	-B	-/A	-/B	1	-B	1	-/B	-A	-/B	-/A	-/B	-B	-/A	
$\chi_{105}^{(29)}$	-C	-A	-/F	/G	E	-/A	/B	/B	-/A	E	/G	-/F	-A	-C	-/E	-1	-G	F	A	/F	-E	/A	-/B	
$\chi_{105}^{(30)}$	-/C	-B	-G	D	F	-/B	A	A	-/B	F	D	-G	-B	-/C	-/F	-1	-/D	/G	B	G	-F	/B	-A	

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$\chi_{105}^{(31)}$	-C	-/A	-/D	E	/G	-A	B	B	-A	/G	E	-/D	-/A	-C	-G	-1	-/E	D	/A	/D	-/G	A	-B
$\chi_{105}^{(32)}$	-C	-B	-E	/F	/D	-/B	A	A	-/B	/D	/F	-E	-B	-C	-D	-1	-F	/E	B	E	-/D	/B	-A
$\chi_{105}^{(33)}$	-/C	-/B	-/E	F	D	-B	/A	/A	-B	D	F	-/E	-/B	-/C	-/D	-1	-/F	E	/B	/E	-D	B	-/A
$\chi_{105}^{(34)}$	-/C	-A	-D	/E	G	-/A	/B	/B	-/A	G	/E	-D	-A	-/C	-/G	-1	-E	/D	A	D	-G	/A	-/B
$\chi_{105}^{(35)}$	-C	-/B	-/G	/D	/F	-B	/A	/A	-B	/F	/D	-/G	-/B	-C	-F	-1	-D	G	/B	/G	-/F	B	-/A
$\chi_{105}^{(36)}$	-/C	-/A	-F	G	/E	-A	B	B	-A	/E	G	-F	-/A	-/C	-E	-1	-/G	/F	/A	F	-/E	A	-B
$\chi_{105}^{(37)}$	C	A	-/F	/G	-E	/A	-/B	/B	-/A	E	-/G	/F	-A	-C	-/E	-1	-G	-F	-A	/F	E	-/A	-/B
$\chi_{105}^{(38)}$	/C	B	-G	D	-F	/B	-A	A	-/B	F	-D	G	-B	-/C	-/F	-1	-/D	-/G	-B	G	F	-/B	-A
$\chi_{105}^{(39)}$	C	/A	-/D	E	-/G	A	-B	B	-A	/G	-E	/D	-/A	-C	-G	-1	-/E	-D	-/A	/D	/G	-A	-B
$\chi_{105}^{(40)}$	C	B	-E	/F	-/D	/B	-A	A	-/B	/D	-/F	E	-B	-C	-D	-1	-F	-/E	-B	E	/D	-/B	-A
$\chi_{105}^{(41)}$	/C	/B	-/E	F	-D	B	-/A	/A	-B	D	-F	/E	-/B	-/C	-/D	-1	-/F	-E	-/B	/E	D	-B	-/A
$\chi_{105}^{(42)}$	/C	A	-D	/E	-G	/A	-/B	/B	-/A	G	-/E	D	-A	-/C	-/G	-1	-E	-/D	-A	D	G	-/A	-/B
$\chi_{105}^{(43)}$	C	/B	-/G	/D	-/F	B	-/A	/A	-B	/F	-/D	/G	-/B	-C	-F	-1	-D	-G	-/B	/G	/F	-B	-/A
$\chi_{105}^{(44)}$	/C	/A	-F	G	-/E	A	-B	B	-A	/E	-G	F	-/A	-/C	-E	-1	-/G	-/F	-/A	F	/E	-A	-B
$\chi_{105}^{(45)}$	-/C	/A	F	G	-/E	A	B	-B	-A	/E	-G	-F	-/A	/C	E	1	/G	-/F	/A	F	-/E	A	-B
$\chi_{105}^{(46)}$	-C	/B	/G	/D	-/F	B	/A	-/A	-B	/F	-/D	-/G	-/B	C	F	1	D	-G	/B	/G	-/F	B	-/A
$\chi_{105}^{(47)}$	-/C	A	D	/E	-G	/A	/B	-/B	-/A	G	-/E	-D	-A	/C	/G	1	E	-/D	A	D	-G	/A	-/B
$\chi_{105}^{(48)}$	-/C	/B	/E	F	-D	B	/A	-/A	-B	D	-F	-/E	-/B	/C	/D	1	/F	-E	/B	/E	-D	B	-/A
$\chi_{105}^{(49)}$	-C	B	E	/F	-/D	/B	A	-A	-/B	/D	-/F	-E	-B	C	D	1	F	-/E	B	E	-/D	/B	-A
$\chi_{105}^{(50)}$	-C	/A	/D	E	-/G	A	B	-B	-A	/G	-E	-/D	-/A	C	G	1	/E	-D	/A	/D	-/G	A	-B
$\chi_{105}^{(51)}$	-/C	B	G	D	-F	/B	A	-A	-/B	F	-D	-G	-B	/C	/F	1	/D	-/G	B	G	-F	/B	-A
$\chi_{105}^{(52)}$	-C	A	/F	/G	-E	/A	/B	-/B	-/A	E	-/G	-/F	-A	C	/E	1	G	-F	A	/F	-E	/A	-/B
$\chi_{105}^{(53)}$	/C	-/A	F	G	/E	-A	-B	-B	-A	/E	G	F	-/A	/C	E	1	/G	/F	-/A	F	/E	-A	-B
$\chi_{105}^{(54)}$	C	-/B	/G	/D	/F	-B	-/A	-/A	-B	/F	/D	/G	-/B	C	F	1	D	G	-/B	/G	/F	-B	-/A
$\chi_{105}^{(55)}$	/C	-A	D	/E	G	-/A	-/B	-/B	-/A	G	/E	D	-A	/C	/G	1	E	/D	-A	D	G	-/A	-/B
$\chi_{105}^{(56)}$	/C	-/B	/E	F	D	-B	-/A	-/A	-B	D	F	/E	-/B	/C	/D	1	/F	E	-/B	/E	D	-B	-/A
$\chi_{105}^{(57)}$	C	-B	E	/F	/D	-/B	-A	-A	-/B	/D	/F	E	-B	C	D	1	F	/E	-B	E	/D	-/B	-A
$\chi_{105}^{(58)}$	C	-/A	/D	E	/G	-A	-B	-B	-A	/G	E	/D	-/A	C	G	1	/E	D	-/A	/D	/G	-A	-B
$\chi_{105}^{(59)}$	/C	-B	G	D	F	-/B	-A	-A	-/B	F	D	G	-B	/C	/F	1	/D	/G	-B	G	F	-/B	-A
$\chi_{105}^{(60)}$	C	-A	/F	/G	E	-/A	-/B	-/B	-/A	E	/G	/F	-A	C	/E	1	G	F	-A	/F	E	-/A	-/B

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$\chi_{105}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{105}^{(2)}$	-1	1	-1	1	-1	1	-1	-1	1	1	1	1	-1	-1
$\chi_{105}^{(3)}$	1	1	-1	1	-1	1	-1	1	-1	-1	1	1	1	1
$\chi_{105}^{(4)}$	-1	1	1	1	1	1	1	-1	-1	-1	1	1	-1	-1
$\chi_{105}^{(5)}$	-/C	/C	-C	C	-/C	C	-C	-C	1	/C	C	C	-1	-/C
$\chi_{105}^{(6)}$	-C	C	-/C	/C	-C	/C	-/C	-/C	1	C	/C	/C	-1	-C
$\chi_{105}^{(7)}$	/C	/C	-C	C	-/C	C	-C	C	-1	-/C	C	C	1	/C
$\chi_{105}^{(8)}$	C	C	-/C	/C	-C	/C	-/C	/C	-1	-C	/C	/C	1	C
$\chi_{105}^{(9)}$	-C	C	/C	/C	C	/C	/C	-/C	-1	-C	/C	/C	-1	-C
$\chi_{105}^{(10)}$	-/C	/C	C	C	/C	C	C	-C	-1	-/C	C	C	-1	-/C
$\chi_{105}^{(11)}$	C	C	/C	/C	C	/C	/C	/C	1	C	/C	/C	1	C
$\chi_{105}^{(12)}$	/C	/C	C	C	/C	C	C	C	1	/C	C	C	1	/C
$\chi_{105}^{(13)}$	B	1	/A	-B	A	-/B	-1	A	-A	-A	-/A	1	A	A
$\chi_{105}^{(14)}$	/A	1	/B	-/A	B	-A	-1	B	-B	-B	-/B	1	B	B
$\chi_{105}^{(15)}$	A	1	B	-A	/B	-/A	-1	/B	-/B	-/B	-B	1	/B	/B

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$\chi_{105}^{(16)}$	/B	1	A	-/B	/A	-B	-1	/A	-/A	-/A	-A	1	/A	/A
$\chi_{105}^{(17)}$	-B	1	/A	-B	A	-/B	-1	-A	A	A	-/A	1	-A	-A
$\chi_{105}^{(18)}$	-/A	1	/B	-/A	B	-A	-1	-B	B	B	-/B	1	-B	-B
$\chi_{105}^{(19)}$	-A	1	B	-A	/B	-/A	-1	-/B	/B	/B	-B	1	-/B	-/B
$\chi_{105}^{(20)}$	-/B	1	A	-/B	/A	-B	-1	-/A	/A	/A	-A	1	-/A	-/A
$\chi_{105}^{(21)}$	/B	1	-A	-/B	-/A	-B	1	/A	/A	/A	-A	1	/A	/A
$\chi_{105}^{(22)}$	A	1	-B	-A	-/B	-/A	1	/B	/B	/B	-B	1	/B	/B
$\chi_{105}^{(23)}$	/A	1	-/B	-/A	-B	-A	1	B	B	B	-/B	1	B	B
$\chi_{105}^{(24)}$	B	1	-/A	-B	-A	-/B	1	A	A	A	-/A	1	A	A
$\chi_{105}^{(25)}$	-/B	1	-A	-/B	-/A	-B	1	-/A	-/A	-/A	-A	1	-/A	-/A
$\chi_{105}^{(26)}$	-A	1	-B	-A	-/B	-/A	1	-/B	-/B	-/B	-B	1	-/B	-/B
$\chi_{105}^{(27)}$	-/A	1	-/B	-/A	-B	-A	1	-B	-B	-B	-/B	1	-B	-B
$\chi_{105}^{(28)}$	-B	1	-/A	-B	-A	-/B	1	-A	-A	-A	-/A	1	-A	-A
$\chi_{105}^{(29)}$	-/G	C	-D	/E	-/D	G	-/C	-F	-B	/D	D	/C	B	-/D
$\chi_{105}^{(30)}$	-D	/C	-E	/F	-/E	/D	-C	-/G	-/A	/E	E	C	/A	-/E
$\chi_{105}^{(31)}$	-E	C	-F	G	-/F	/E	-/C	-D	-/B	/F	F	/C	/B	-/F
$\chi_{105}^{(32)}$	-/F	C	-G	D	-/G	F	-/C	-/E	-/A	/G	G	/C	/A	-/G
$\chi_{105}^{(33)}$	-F	/C	-/G	/D	-G	/F	-C	-E	-A	G	/G	C	A	-G
$\chi_{105}^{(34)}$	-/E	/C	-/F	/G	-F	E	-C	-/D	-B	F	/F	C	B	-F
$\chi_{105}^{(35)}$	-/D	C	-/E	F	-E	D	-/C	-G	-A	E	/E	/C	A	-E
$\chi_{105}^{(36)}$	-G	/C	-/D	E	-D	/G	-C	-/F	-/B	D	/D	C	/B	-D
$\chi_{105}^{(37)}$	/G	C	-D	/E	-/D	G	-/C	F	B	-/D	D	/C	-B	/D
$\chi_{105}^{(38)}$	D	/C	-E	/F	-/E	/D	-C	/G	/A	-/E	E	C	-/A	/E
$\chi_{105}^{(39)}$	E	C	-F	G	-/F	/E	-/C	D	/B	-/F	F	/C	-/B	/F
$\chi_{105}^{(40)}$	/F	C	-G	D	-/G	F	-/C	/E	/A	-/G	G	/C	-/A	/G
$\chi_{105}^{(41)}$	F	/C	-/G	/D	-G	/F	-C	E	A	-G	/G	C	-A	G
$\chi_{105}^{(42)}$	/E	/C	-/F	/G	-F	E	-C	/D	B	-F	/F	C	-B	F
$\chi_{105}^{(43)}$	/D	C	-/E	F	-E	D	-/C	G	A	-E	/E	/C	-A	E
$\chi_{105}^{(44)}$	G	/C	-/D	E	-D	/G	-C	/F	/B	-D	/D	C	-/B	D
$\chi_{105}^{(45)}$	-G	/C	/D	E	D	/G	C	-/F	/B	-D	/D	C	/B	-D
$\chi_{105}^{(46)}$	-/D	C	/E	F	E	D	/C	-G	A	-E	/E	/C	A	-E
$\chi_{105}^{(47)}$	-/E	/C	/F	/G	F	E	C	-/D	B	-F	/F	C	B	-F
$\chi_{105}^{(48)}$	-F	/C	/G	/D	G	/F	C	-E	A	-G	/G	C	A	-G
$\chi_{105}^{(49)}$	-/F	C	G	D	/G	F	/C	-/E	/A	-/G	G	/C	/A	-/G
$\chi_{105}^{(50)}$	-E	C	F	G	/F	/E	/C	-D	/B	-/F	F	/C	/B	-/F
$\chi_{105}^{(51)}$	-D	/C	E	/F	/E	/D	C	-/G	/A	-/E	E	C	/A	-/E
$\chi_{105}^{(52)}$	-/G	C	D	/E	/D	G	/C	-F	B	-/D	D	/C	B	-/D
$\chi_{105}^{(53)}$	G	/C	/D	E	D	/G	C	/F	-/B	D	/D	C	-/B	D
$\chi_{105}^{(54)}$	/D	C	/E	F	E	D	/C	G	-A	E	/E	/C	-A	E
$\chi_{105}^{(55)}$	/E	/C	/F	/G	F	E	C	/D	-B	F	/F	C	-B	F
$\chi_{105}^{(56)}$	F	/C	/G	/D	G	/F	C	E	-A	G	/G	C	-A	G
$\chi_{105}^{(57)}$	/F	C	G	D	/G	F	/C	/E	-/A	/G	G	/C	-/A	/G
$\chi_{105}^{(58)}$	E	C	F	G	/F	/E	/C	D	-/B	/F	F	/C	-/B	/F
$\chi_{105}^{(59)}$	D	/C	E	/F	/E	/D	C	/G	-/A	/E	E	C	-/A	/E
$\chi_{105}^{(60)}$	/G	C	D	/E	/D	G	/C	F	-B	/D	D	/C	-B	/D

where A = -E(5)^3,B = -E(5),C = E(3) = (-1+ER(-3))/2 = b3, D = E(15)^7,E = E(15)^{14},F = E(15)^{13},G = E(15)^4.

The generators of G^{s106} are:

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 0 & 0 & -1 & 2 \\ -2 & -1 & 1 & 0 & 1 & -1 & -1 & 2 \\ -2 & -1 & 1 & 0 & 1 & -1 & -2 & 4 \\ -3 & -1 & 2 & -1 & 2 & -2 & -2 & 5 \\ -2 & -1 & 1 & 0 & 1 & -2 & -1 & 4 \\ -1 & -1 & 1 & 0 & 1 & -2 & -1 & 3 \\ 0 & -1 & 0 & 0 & 1 & -1 & -1 & 2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 1 & -1 & 1 & 0 & 0 \\ -1 & -1 & 1 & 1 & -1 & 1 & 0 & 0 \\ -1 & -1 & 0 & 2 & -1 & 1 & 0 & 0 \\ -1 & -1 & 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & 2 & -2 & 2 & -2 & 0 & 0 \\ 0 & 0 & 3 & -2 & 2 & -2 & 0 & 0 \\ 0 & 0 & 4 & -3 & 4 & -4 & 0 & 0 \\ 0 & 0 & 3 & -3 & 4 & -3 & 0 & 0 \\ 0 & 0 & 3 & -3 & 3 & -2 & 0 & 0 \\ 0 & 0 & 2 & -2 & 2 & -2 & 1 & 0 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & -2 & 2 \\ 0 & 1 & 0 & 0 & 0 & 0 & -3 & 3 \\ 0 & 0 & 1 & 0 & 0 & 0 & -4 & 4 \\ 0 & 0 & 0 & 1 & 0 & 0 & -6 & 6 \\ 0 & 0 & 0 & 0 & 1 & 0 & -5 & 5 \\ 0 & 0 & 0 & 0 & 0 & 1 & -4 & 4 \\ 0 & 0 & 0 & 0 & 0 & 0 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & 0 & -1 & 2 & -1 & 0 \\ 1 & 1 & -1 & 0 & -2 & 3 & -2 & 1 \\ 1 & 2 & -1 & -1 & -2 & 4 & -2 & 0 \\ 1 & 2 & -1 & -1 & -3 & 6 & -4 & 1 \\ 0 & 2 & 0 & -1 & -3 & 5 & -3 & 1 \\ 0 & 2 & 0 & -1 & -2 & 3 & -2 & 1 \\ 0 & 2 & 0 & -1 & -1 & 2 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s106} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 0 & 0 & 0 & 1 & -1 \\ 2 & 1 & -1 & 0 & -1 & 1 & 1 & -2 \\ 3 & 0 & -1 & 0 & -1 & 1 & 2 & -3 \\ 4 & 0 & -2 & 1 & -2 & 2 & 2 & -4 \\ 3 & 0 & -1 & 0 & -1 & 2 & 1 & -3 \\ 2 & 0 & -1 & 0 & -1 & 2 & 1 & -2 \\ 1 & 0 & 0 & 0 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & -1 & 1 & 0 \\ 1 & 1 & -2 & 0 & 1 & -1 & 2 & -1 \\ 1 & 0 & -2 & 0 & 2 & -2 & 3 & -1 \\ 2 & 0 & -4 & 1 & 2 & -2 & 4 & -2 \\ 2 & 0 & -3 & 0 & 2 & -1 & 3 & -2 \\ 1 & 0 & -2 & 0 & 1 & 0 & 2 & -1 \\ 1 & 0 & -1 & 0 & 0 & 0 & 2 & -1 \\ 1 & 0 & -1 & 0 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 0 & -1 & 1 & -1 & 1 \\ -1 & -1 & 2 & 0 & -1 & 1 & -2 & 1 \\ 0 & -1 & 2 & 0 & -2 & 2 & -3 & 2 \\ -1 & -1 & 4 & -1 & -2 & 2 & -4 & 3 \\ -1 & -1 & 3 & 0 & -2 & 1 & -3 & 3 \\ 0 & -1 & 2 & 0 & -1 & 0 & -2 & 2 \\ 0 & -1 & 1 & 0 & 0 & 0 & -2 & 2 \\ 0 & -1 & 1 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & -1 & -1 & 0 & 0 & 0 & 0 & 1 \\ 1 & -1 & 0 & -1 & 0 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 0 & 0 & -1 & 2 \\ -2 & -1 & 1 & 0 & 1 & -1 & -1 & 2 \\ -2 & -1 & 1 & 0 & 1 & -1 & -2 & 4 \\ -3 & -1 & 2 & -1 & 2 & -2 & -2 & 5 \\ -2 & -1 & 1 & 0 & 1 & -2 & -1 & 4 \\ -1 & -1 & 1 & 0 & 1 & -2 & -1 & 3 \\ 0 & -1 & 0 & 0 & 1 & -1 & -1 & 2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & 0 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 & 0 & 0 & -1 \\ -1 & 1 & 0 & 1 & 0 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 & 1 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & 0 & 1 & -2 \\ 2 & 1 & -1 & 0 & -1 & 1 & 1 & -2 \\ 2 & 1 & -1 & 0 & -1 & 1 & 2 & -4 \\ 3 & 1 & -2 & 1 & -2 & 2 & 2 & -5 \\ 2 & 1 & -1 & 0 & -1 & 2 & 1 & -4 \\ 1 & 1 & -1 & 0 & -1 & 2 & 1 & -3 \\ 0 & 1 & 0 & 0 & -1 & 1 & 1 & -2 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 1 & -1 & 1 & -1 \\ 1 & 1 & -2 & 0 & 1 & -1 & 2 & -1 \\ 0 & 1 & -2 & 0 & 2 & -2 & 3 & -2 \\ 1 & 1 & -4 & 1 & 2 & -2 & 4 & -3 \\ 1 & 1 & -3 & 0 & 2 & -1 & 3 & -3 \\ 0 & 1 & -2 & 0 & 1 & 0 & 2 & -2 \\ 0 & 1 & -1 & 0 & 0 & 0 & 2 & -2 \\ 0 & 1 & -1 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 1 & -1 & 0 \\ -1 & -1 & 2 & 0 & -1 & 1 & -2 & 1 \\ -1 & 0 & 2 & 0 & -2 & 2 & -3 & 1 \\ -2 & 0 & 4 & -1 & -2 & 2 & -4 & 2 \\ -2 & 0 & 3 & 0 & -2 & 1 & -3 & 2 \\ -1 & 0 & 2 & 0 & -1 & 0 & -2 & 1 \\ -1 & 0 & 1 & 0 & 0 & 0 & -2 & 1 \\ -1 & 0 & 1 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & 0 & -1 & 1 \\ -2 & -1 & 1 & 0 & 1 & -1 & -1 & 2 \\ -3 & 0 & 1 & 0 & 1 & -1 & -2 & 3 \\ -4 & 0 & 2 & -1 & 2 & -2 & -2 & 4 \\ -3 & 0 & 1 & 0 & 1 & -2 & -1 & 3 \\ -2 & 0 & 1 & 0 & 1 & -2 & -1 & 2 \\ -1 & 0 & 0 & 0 & 1 & -1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & -2 & 2 \\ 0 & 1 & 0 & 0 & 0 & 0 & -3 & 3 \\ 0 & 0 & 1 & 0 & 0 & 0 & -4 & 4 \\ 0 & 0 & 0 & 1 & 0 & 0 & -6 & 6 \\ 0 & 0 & 0 & 0 & 1 & 0 & -5 & 5 \\ 0 & 0 & 0 & 0 & 0 & 1 & -4 & 4 \\ 0 & 0 & 0 & 0 & 0 & 0 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 0 & 0 & 0 & -1 & 1 \\ 2 & 1 & -1 & 0 & -1 & 1 & -2 & 1 \\ 3 & 0 & -1 & 0 & -1 & 1 & -2 & 1 \\ 4 & 0 & -2 & 1 & -2 & 2 & -4 & 2 \\ 3 & 0 & -1 & 0 & -1 & 2 & -4 & 2 \\ 2 & 0 & -1 & 0 & -1 & 2 & -3 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & -1 & -1 & 2 \\ 1 & 1 & -2 & 0 & 1 & -1 & -1 & 2 \\ 1 & 0 & -2 & 0 & 2 & -2 & -1 & 3 \\ 2 & 0 & -4 & 1 & 2 & -2 & -2 & 4 \\ 2 & 0 & -3 & 0 & 2 & -1 & -2 & 3 \\ 1 & 0 & -2 & 0 & 1 & 0 & -2 & 3 \\ 1 & 0 & -1 & 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 0 & -1 & 1 & 1 & -1 \\ -1 & -1 & 2 & 0 & -1 & 1 & 1 & -2 \\ 0 & -1 & 2 & 0 & -2 & 2 & 1 & -2 \\ -1 & -1 & 4 & -1 & -2 & 2 & 2 & -3 \\ -1 & -1 & 3 & 0 & -2 & 1 & 2 & -2 \\ 0 & -1 & 2 & 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 0 & 2 & -1 \\ 0 & -1 & 0 & 0 & 0 & 0 & 3 & -3 \\ 1 & -1 & -1 & 0 & 0 & 0 & 4 & -3 \\ 1 & -1 & 0 & -1 & 0 & 0 & 6 & -5 \\ 1 & -1 & 0 & 0 & -1 & 0 & 5 & -4 \\ 1 & -1 & 0 & 0 & 0 & -1 & 4 & -3 \\ 1 & -1 & 0 & 0 & 0 & 0 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 0 & 0 & 1 & 0 \\ -2 & -1 & 1 & 0 & 1 & -1 & 2 & -1 \\ -2 & -1 & 1 & 0 & 1 & -1 & 2 & 0 \\ -3 & -1 & 2 & -1 & 2 & -2 & 4 & -1 \\ -2 & -1 & 1 & 0 & 1 & -2 & 4 & -1 \\ -1 & -1 & 1 & 0 & 1 & -2 & 3 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & 0 & 0 & -2 & 1 \\ 0 & 1 & 0 & 0 & 0 & 0 & -3 & 3 \\ -1 & 1 & 1 & 0 & 0 & 0 & -4 & 3 \\ -1 & 1 & 0 & 1 & 0 & 0 & -6 & 5 \\ -1 & 1 & 0 & 0 & 1 & 0 & -5 & 4 \\ -1 & 1 & 0 & 0 & 0 & 1 & -4 & 3 \\ -1 & 1 & 0 & 0 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & 0 & -1 & 0 \\ 2 & 1 & -1 & 0 & -1 & 1 & -2 & 1 \\ 2 & 1 & -1 & 0 & -1 & 1 & -2 & 0 \\ 3 & 1 & -2 & 1 & -2 & 2 & -4 & 1 \\ 2 & 1 & -1 & 0 & -1 & 2 & -4 & 1 \\ 1 & 1 & -1 & 0 & -1 & 2 & -3 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 1 & -1 & -1 & 1 \\ 1 & 1 & -2 & 0 & 1 & -1 & -1 & 2 \\ 0 & 1 & -2 & 0 & 2 & -2 & -1 & 2 \\ 1 & 1 & -4 & 1 & 2 & -2 & -2 & 3 \\ 1 & 1 & -3 & 0 & 2 & -1 & -2 & 2 \\ 0 & 1 & -2 & 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 1 & 1 & -2 \\ -1 & -1 & 2 & 0 & -1 & 1 & 1 & -2 \\ -1 & 0 & 2 & 0 & -2 & 2 & 1 & -3 \\ -2 & 0 & 4 & -1 & -2 & 2 & 2 & -4 \\ -2 & 0 & 3 & 0 & -2 & 1 & 2 & -3 \\ -1 & 0 & 2 & 0 & -1 & 0 & 2 & -3 \\ -1 & 0 & 1 & 0 & 0 & 0 & 1 & -2 \\ -1 & 0 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 2 & -2 \\ 0 & -1 & 0 & 0 & 0 & 0 & 3 & -3 \\ 0 & 0 & -1 & 0 & 0 & 0 & 4 & -4 \\ 0 & 0 & 0 & -1 & 0 & 0 & 6 & -6 \\ 0 & 0 & 0 & 0 & -1 & 0 & 5 & -5 \\ 0 & 0 & 0 & 0 & 0 & -1 & 4 & -4 \\ 0 & 0 & 0 & 0 & 0 & 0 & 2 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & 0 & 1 & -1 \\ -2 & -1 & 1 & 0 & 1 & -1 & 2 & -1 \\ -3 & 0 & 1 & 0 & 1 & -1 & 2 & -1 \\ -4 & 0 & 2 & -1 & 2 & -2 & 4 & -2 \\ -3 & 0 & 1 & 0 & 1 & -2 & 4 & -2 \\ -2 & 0 & 1 & 0 & 1 & -2 & 3 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & -2 & 2 \\ 0 & 1 & -1 & 1 & -1 & 1 & -3 & 3 \\ 0 & 0 & -1 & 2 & -2 & 2 & -4 & 4 \\ 0 & 0 & -2 & 3 & -2 & 2 & -6 & 6 \\ 0 & 0 & -2 & 2 & -1 & 2 & -5 & 5 \\ 0 & 0 & -1 & 1 & -1 & 2 & -4 & 4 \\ 0 & 0 & -1 & 1 & -1 & 1 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -2 & 1 & -1 & 1 & -1 & 1 \\ 2 & 1 & -2 & 1 & -2 & 2 & -2 & 1 \\ 3 & 0 & -3 & 2 & -3 & 3 & -2 & 1 \\ 4 & 0 & -4 & 3 & -4 & 4 & -4 & 2 \\ 3 & 0 & -3 & 2 & -3 & 4 & -4 & 2 \\ 2 & 0 & -2 & 1 & -2 & 3 & -3 & 2 \\ 1 & 0 & -1 & 1 & -2 & 2 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -2 & 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & -3 & 1 & 0 & 0 & -1 & 2 \\ 1 & 0 & -4 & 2 & 0 & 0 & -1 & 3 \\ 2 & 0 & -6 & 3 & 0 & 0 & -2 & 4 \\ 2 & 0 & -5 & 2 & 0 & 1 & -2 & 3 \\ 1 & 0 & -3 & 1 & 0 & 1 & -2 & 3 \\ 1 & 0 & -2 & 1 & -1 & 1 & -1 & 2 \\ 1 & 0 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 2 & -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & 3 & -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 4 & -2 & 0 & 0 & 1 & -2 \\ -1 & -1 & 6 & -3 & 0 & 0 & 2 & -3 \\ -1 & -1 & 5 & -2 & 0 & -1 & 2 & -2 \\ 0 & -1 & 3 & -1 & 0 & -1 & 2 & -2 \\ 0 & -1 & 2 & -1 & 1 & -1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 1 & -1 & 2 & -1 \\ 0 & -1 & 1 & -1 & 1 & -1 & 3 & -3 \\ 1 & -1 & 1 & -2 & 2 & -2 & 4 & -3 \\ 1 & -1 & 2 & -3 & 2 & -2 & 6 & -5 \\ 1 & -1 & 2 & -2 & 1 & -2 & 5 & -4 \\ 1 & -1 & 1 & -1 & 1 & -2 & 4 & -3 \\ 1 & -1 & 1 & -1 & 1 & -1 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 2 & -1 & 1 & -1 & 1 & 0 \\ -2 & -1 & 2 & -1 & 2 & -2 & 2 & -1 \\ -2 & -1 & 3 & -2 & 3 & -3 & 2 & 0 \\ -3 & -1 & 4 & -3 & 4 & -4 & 4 & -1 \\ -2 & -1 & 3 & -2 & 3 & -4 & 4 & -1 \\ -1 & -1 & 2 & -1 & 2 & -3 & 3 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & 1 & -1 & 1 & -2 & 1 \\ 0 & 1 & -1 & 1 & -1 & 1 & -3 & 3 \\ -1 & 1 & -1 & 2 & -2 & 2 & -4 & 3 \\ -1 & 1 & -2 & 3 & -2 & 2 & -6 & 5 \\ -1 & 1 & -2 & 2 & -1 & 2 & -5 & 4 \\ -1 & 1 & -1 & 1 & -1 & 2 & -4 & 3 \\ -1 & 1 & -1 & 1 & -1 & 1 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -2 & 1 & -1 & 1 & -1 & 0 \\ 2 & 1 & -2 & 1 & -2 & 2 & -2 & 1 \\ 2 & 1 & -3 & 2 & -3 & 3 & -2 & 0 \\ 3 & 1 & -4 & 3 & -4 & 4 & -4 & 1 \\ 2 & 1 & -3 & 2 & -3 & 4 & -4 & 1 \\ 1 & 1 & -2 & 1 & -2 & 3 & -3 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -2 & 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & -3 & 1 & 0 & 0 & -1 & 2 \\ 0 & 1 & -4 & 2 & 0 & 0 & -1 & 2 \\ 1 & 1 & -6 & 3 & 0 & 0 & -2 & 3 \\ 1 & 1 & -5 & 2 & 0 & 1 & -2 & 2 \\ 0 & 1 & -3 & 1 & 0 & 1 & -2 & 2 \\ 0 & 1 & -2 & 1 & -1 & 1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & 1 & -2 \\ -1 & -1 & 3 & -1 & 0 & 0 & 1 & -2 \\ -1 & 0 & 4 & -2 & 0 & 0 & 1 & -3 \\ -2 & 0 & 6 & -3 & 0 & 0 & 2 & -4 \\ -2 & 0 & 5 & -2 & 0 & -1 & 2 & -3 \\ -1 & 0 & 3 & -1 & 0 & -1 & 2 & -3 \\ -1 & 0 & 2 & -1 & 1 & -1 & 1 & -2 \\ -1 & 0 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 1 & -1 & 2 & -2 \\ 0 & -1 & 1 & -1 & 1 & -1 & 3 & -3 \\ 0 & 0 & 1 & -2 & 2 & -2 & 4 & -4 \\ 0 & 0 & 2 & -3 & 2 & -2 & 6 & -6 \\ 0 & 0 & 2 & -2 & 1 & -2 & 5 & -5 \\ 0 & 0 & 1 & -1 & 1 & -2 & 4 & -4 \\ 0 & 0 & 1 & -1 & 1 & -1 & 2 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 2 & -1 & 1 & -1 & 1 & -1 \\ -2 & -1 & 2 & -1 & 2 & -2 & 2 & -1 \\ -3 & 0 & 3 & -2 & 3 & -3 & 2 & -1 \\ -4 & 0 & 4 & -3 & 4 & -4 & 4 & -2 \\ -3 & 0 & 3 & -2 & 3 & -4 & 4 & -2 \\ -2 & 0 & 2 & -1 & 2 & -3 & 3 & -2 \\ -1 & 0 & 1 & -1 & 2 & -2 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & -2 & 2 \\ -1 & 0 & 0 & 1 & -1 & 1 & -3 & 3 \\ -1 & -1 & 1 & 1 & -1 & 1 & -4 & 4 \\ -1 & -1 & 0 & 2 & -1 & 1 & -6 & 6 \\ -1 & -1 & 0 & 1 & 0 & 1 & -5 & 5 \\ 0 & 0 & 0 & 0 & 0 & 1 & -4 & 4 \\ 0 & 0 & 0 & 0 & 0 & 0 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & -1 & 1 & -1 & 1 \\ 1 & 0 & -1 & 1 & -2 & 2 & -2 & 1 \\ 2 & -1 & -1 & 1 & -2 & 2 & -2 & 1 \\ 3 & -1 & -2 & 2 & -3 & 3 & -4 & 2 \\ 2 & -1 & -1 & 1 & -2 & 3 & -4 & 2 \\ 2 & 0 & -1 & 0 & -1 & 2 & -3 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -2 & 1 & 0 & 0 & -1 & 2 \\ 0 & -1 & -2 & 1 & 1 & -1 & -1 & 3 \\ 1 & -1 & -4 & 2 & 1 & -1 & -2 & 4 \\ 1 & -1 & -3 & 1 & 1 & 0 & -2 & 3 \\ 1 & 0 & -2 & 0 & 1 & 0 & -2 & 3 \\ 1 & 0 & -1 & 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 2 & -1 & 0 & 0 & 1 & -2 \\ 1 & 0 & 2 & -1 & -1 & 1 & 1 & -2 \\ 0 & 0 & 4 & -2 & -1 & 1 & 2 & -3 \\ 0 & 0 & 3 & -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 2 & 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 1 & -1 & 2 & -1 \\ 1 & 0 & 0 & -1 & 1 & -1 & 3 & -3 \\ 2 & 0 & -1 & -1 & 1 & -1 & 4 & -3 \\ 2 & 0 & 0 & -2 & 1 & -1 & 6 & -5 \\ 2 & 0 & 0 & -1 & 0 & -1 & 5 & -4 \\ 1 & -1 & 0 & 0 & 0 & -1 & 4 & -3 \\ 1 & -1 & 0 & 0 & 0 & 0 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -1 & 1 & -1 & 1 & 0 \\ -1 & 0 & 1 & -1 & 2 & -2 & 2 & -1 \\ -1 & 0 & 1 & -1 & 2 & -2 & 2 & 0 \\ -2 & 0 & 2 & -2 & 3 & -3 & 4 & -1 \\ -1 & 0 & 1 & -1 & 2 & -3 & 4 & -1 \\ -1 & -1 & 1 & 0 & 1 & -2 & 3 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 & 1 & -2 & 1 \\ -1 & 0 & 0 & 1 & -1 & 1 & -3 & 3 \\ -2 & 0 & 1 & 1 & -1 & 1 & -4 & 3 \\ -2 & 0 & 0 & 2 & -1 & 1 & -6 & 5 \\ -2 & 0 & 0 & 1 & 0 & 1 & -5 & 4 \\ -1 & 1 & 0 & 0 & 0 & 1 & -4 & 3 \\ -1 & 1 & 0 & 0 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & -1 & 1 & -1 & 0 \\ 1 & 0 & -1 & 1 & -2 & 2 & -2 & 1 \\ 1 & 0 & -1 & 1 & -2 & 2 & -2 & 0 \\ 2 & 0 & -2 & 2 & -3 & 3 & -4 & 1 \\ 1 & 0 & -1 & 1 & -2 & 3 & -4 & 1 \\ 1 & 1 & -1 & 0 & -1 & 2 & -3 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -2 & 1 & 0 & 0 & -1 & 2 \\ -1 & 0 & -2 & 1 & 1 & -1 & -1 & 2 \\ 0 & 0 & -4 & 2 & 1 & -1 & -2 & 3 \\ 0 & 0 & -3 & 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -2 & 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 1 & -1 & 0 & 0 & 1 & -2 \\ 0 & 0 & 2 & -1 & 0 & 0 & 1 & -2 \\ 0 & 1 & 2 & -1 & -1 & 1 & 1 & -3 \\ -1 & 1 & 4 & -2 & -1 & 1 & 2 & -4 \\ -1 & 1 & 3 & -1 & -1 & 0 & 2 & -3 \\ -1 & 0 & 2 & 0 & -1 & 0 & 2 & -3 \\ -1 & 0 & 1 & 0 & 0 & 0 & 1 & -2 \\ -1 & 0 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 1 & -1 & 2 & -2 \\ 1 & 0 & 0 & -1 & 1 & -1 & 3 & -3 \\ 1 & 1 & -1 & -1 & 1 & -1 & 4 & -4 \\ 1 & 1 & 0 & -2 & 1 & -1 & 6 & -6 \\ 1 & 1 & 0 & -1 & 0 & -1 & 5 & -5 \\ 0 & 0 & 0 & 0 & 0 & -1 & 4 & -4 \\ 0 & 0 & 0 & 0 & 0 & 0 & 2 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 1 & -1 & 1 & -1 \\ -1 & 0 & 1 & -1 & 2 & -2 & 2 & -1 \\ -2 & 1 & 1 & -1 & 2 & -2 & 2 & -1 \\ -3 & 1 & 2 & -2 & 3 & -3 & 4 & -2 \\ -2 & 1 & 1 & -1 & 2 & -3 & 4 & -2 \\ -2 & 0 & 1 & 0 & 1 & -2 & 3 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & -2 & 2 \\ 0 & 1 & -1 & 1 & -1 & 1 & -3 & 3 \\ 1 & 1 & -1 & 1 & -1 & 1 & -4 & 4 \\ 1 & 1 & -2 & 2 & -1 & 1 & -6 & 6 \\ 1 & 1 & -2 & 1 & 0 & 1 & -5 & 5 \\ 1 & 1 & -1 & 0 & 0 & 1 & -4 & 4 \\ 1 & 1 & -1 & 0 & 0 & 0 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -2 & 1 & -1 & 1 & -1 & 1 \\ 2 & 1 & -2 & 1 & -2 & 2 & -2 & 1 \\ 4 & 1 & -3 & 1 & -2 & 2 & -2 & 1 \\ 5 & 1 & -4 & 2 & -3 & 3 & -4 & 2 \\ 4 & 1 & -3 & 1 & -2 & 3 & -4 & 2 \\ 3 & 1 & -2 & 0 & -1 & 2 & -3 & 2 \\ 2 & 1 & -1 & 0 & -1 & 1 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -2 & 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & -3 & 1 & 0 & 0 & -1 & 2 \\ 2 & 1 & -4 & 1 & 1 & -1 & -1 & 3 \\ 3 & 1 & -6 & 2 & 1 & -1 & -2 & 4 \\ 3 & 1 & -5 & 1 & 1 & 0 & -2 & 3 \\ 2 & 1 & -3 & 0 & 1 & 0 & -2 & 3 \\ 2 & 1 & -2 & 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 2 & -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & 3 & -1 & 0 & 0 & 1 & -2 \\ -1 & -2 & 4 & -1 & -1 & 1 & 1 & -2 \\ -2 & -2 & 6 & -2 & -1 & 1 & 2 & -3 \\ -2 & -2 & 5 & -1 & -1 & 0 & 2 & -2 \\ -1 & -2 & 3 & 0 & -1 & 0 & 2 & -2 \\ -1 & -2 & 2 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 1 & -1 & 2 & -1 \\ 0 & -1 & 1 & -1 & 1 & -1 & 3 & -3 \\ 0 & -2 & 1 & -1 & 1 & -1 & 4 & -3 \\ 0 & -2 & 2 & -2 & 1 & -1 & 6 & -5 \\ 0 & -2 & 2 & -1 & 0 & -1 & 5 & -4 \\ 0 & -2 & 1 & 0 & 0 & -1 & 4 & -3 \\ 0 & -2 & 1 & 0 & 0 & 0 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 2 & -1 & 1 & -1 & 1 & 0 \\ -2 & -1 & 2 & -1 & 2 & -2 & 2 & -1 \\ -3 & -2 & 3 & -1 & 2 & -2 & 2 & 0 \\ -4 & -2 & 4 & -2 & 3 & -3 & 4 & -1 \\ -3 & -2 & 3 & -1 & 2 & -3 & 4 & -1 \\ -2 & -2 & 2 & 0 & 1 & -2 & 3 & -1 \\ -1 & -2 & 1 & 0 & 1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & 1 & -1 & 1 & -2 & 1 \\ 0 & 1 & -1 & 1 & -1 & 1 & -3 & 3 \\ 0 & 2 & -1 & 1 & -1 & 1 & -4 & 3 \\ 0 & 2 & -2 & 2 & -1 & 1 & -6 & 5 \\ 0 & 2 & -2 & 1 & 0 & 1 & -5 & 4 \\ 0 & 2 & -1 & 0 & 0 & 1 & -4 & 3 \\ 0 & 2 & -1 & 0 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -2 & 1 & -1 & 1 & -1 & 0 \\ 2 & 1 & -2 & 1 & -2 & 2 & -2 & 1 \\ 3 & 2 & -3 & 1 & -2 & 2 & -2 & 0 \\ 4 & 2 & -4 & 2 & -3 & 3 & -4 & 1 \\ 3 & 2 & -3 & 1 & -2 & 3 & -4 & 1 \\ 2 & 2 & -2 & 0 & -1 & 2 & -3 & 1 \\ 1 & 2 & -1 & 0 & -1 & 1 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -2 & 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & -3 & 1 & 0 & 0 & -1 & 2 \\ 1 & 2 & -4 & 1 & 1 & -1 & -1 & 2 \\ 2 & 2 & -6 & 2 & 1 & -1 & -2 & 3 \\ 2 & 2 & -5 & 1 & 1 & 0 & -2 & 2 \\ 1 & 2 & -3 & 0 & 1 & 0 & -2 & 2 \\ 1 & 2 & -2 & 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & 1 & -2 \\ -1 & -1 & 3 & -1 & 0 & 0 & 1 & -2 \\ -2 & -1 & 4 & -1 & -1 & 1 & 1 & -3 \\ -3 & -1 & 6 & -2 & -1 & 1 & 2 & -4 \\ -3 & -1 & 5 & -1 & -1 & 0 & 2 & -3 \\ -2 & -1 & 3 & 0 & -1 & 0 & 2 & -3 \\ -2 & -1 & 2 & 0 & 0 & 0 & 1 & -2 \\ -1 & 0 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 1 & -1 & 2 & -2 \\ 0 & -1 & 1 & -1 & 1 & -1 & 3 & -3 \\ -1 & -1 & 1 & -1 & 1 & -1 & 4 & -4 \\ -1 & -1 & 2 & -2 & 1 & -1 & 6 & -6 \\ -1 & -1 & 2 & -1 & 0 & -1 & 5 & -5 \\ -1 & -1 & 1 & 0 & 0 & -1 & 4 & -4 \\ -1 & -1 & 1 & 0 & 0 & 0 & 2 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 2 & -1 & 1 & -1 & 1 & -1 \\ -2 & -1 & 2 & -1 & 2 & -2 & 2 & -1 \\ -4 & -1 & 3 & -1 & 2 & -2 & 2 & -1 \\ -5 & -1 & 4 & -2 & 3 & -3 & 4 & -2 \\ -4 & -1 & 3 & -1 & 2 & -3 & 4 & -2 \\ -3 & -1 & 2 & 0 & 1 & -2 & 3 & -2 \\ -2 & -1 & 1 & 0 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 2 & -2 & 2 \\ -1 & 1 & 0 & 0 & -1 & 2 & -3 & 3 \\ -1 & 0 & 0 & 1 & -2 & 3 & -4 & 4 \\ -2 & 0 & 0 & 1 & -2 & 4 & -6 & 6 \\ -1 & 0 & -1 & 1 & -1 & 3 & -5 & 5 \\ 0 & 0 & -1 & 1 & -1 & 2 & -4 & 4 \\ 0 & 0 & -1 & 1 & -1 & 1 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & -1 & 2 & -1 & 1 \\ 1 & 1 & -1 & 0 & -2 & 3 & -2 & 1 \\ 2 & 0 & -2 & 1 & -3 & 4 & -2 & 1 \\ 2 & 0 & -2 & 1 & -4 & 6 & -4 & 2 \\ 2 & 0 & -2 & 1 & -3 & 5 & -4 & 2 \\ 2 & 0 & -2 & 1 & -2 & 3 & -3 & 2 \\ 1 & 0 & -1 & 1 & -2 & 2 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & -2 & 0 & 0 & 1 & -1 & 2 \\ 0 & 0 & -3 & 1 & 0 & 1 & -1 & 3 \\ 0 & 0 & -4 & 1 & 0 & 2 & -2 & 4 \\ 1 & 0 & -4 & 1 & 0 & 2 & -2 & 3 \\ 1 & 0 & -3 & 1 & 0 & 1 & -2 & 3 \\ 1 & 0 & -2 & 1 & -1 & 1 & -1 & 2 \\ 1 & 0 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 1 & 0 & 0 & -1 & 1 & -1 \\ 0 & -1 & 2 & 0 & 0 & -1 & 1 & -2 \\ 1 & -1 & 3 & -1 & 0 & -1 & 1 & -2 \\ 1 & -1 & 4 & -1 & 0 & -2 & 2 & -3 \\ 0 & -1 & 4 & -1 & 0 & -2 & 2 & -2 \\ 0 & -1 & 3 & -1 & 0 & -1 & 2 & -2 \\ 0 & -1 & 2 & -1 & 1 & -1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -2 & 2 & -1 \\ 1 & -1 & 0 & 0 & 1 & -2 & 3 & -3 \\ 2 & -1 & 0 & -1 & 2 & -3 & 4 & -3 \\ 3 & -1 & 0 & -1 & 2 & -4 & 6 & -5 \\ 2 & -1 & 1 & -1 & 1 & -3 & 5 & -4 \\ 1 & -1 & 1 & -1 & 1 & -2 & 4 & -3 \\ 1 & -1 & 1 & -1 & 1 & -1 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -1 & 1 & 0 & 2 & -3 & 2 & -1 \\ -1 & -1 & 2 & -1 & 3 & -4 & 2 & 0 \\ -1 & -1 & 2 & -1 & 4 & -6 & 4 & -1 \\ -1 & -1 & 2 & -1 & 3 & -5 & 4 & -1 \\ -1 & -1 & 2 & -1 & 2 & -3 & 3 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 2 & -2 & 1 \\ -1 & 1 & 0 & 0 & -1 & 2 & -3 & 3 \\ -2 & 1 & 0 & 1 & -2 & 3 & -4 & 3 \\ -3 & 1 & 0 & 1 & -2 & 4 & -6 & 5 \\ -2 & 1 & -1 & 1 & -1 & 3 & -5 & 4 \\ -1 & 1 & -1 & 1 & -1 & 2 & -4 & 3 \\ -1 & 1 & -1 & 1 & -1 & 1 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & -1 & 2 & -1 & 0 \\ 1 & 1 & -1 & 0 & -2 & 3 & -2 & 1 \\ 1 & 1 & -2 & 1 & -3 & 4 & -2 & 0 \\ 1 & 1 & -2 & 1 & -4 & 6 & -4 & 1 \\ 1 & 1 & -2 & 1 & -3 & 5 & -4 & 1 \\ 1 & 1 & -2 & 1 & -2 & 3 & -3 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & -1 & 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & -2 & 0 & 0 & 1 & -1 & 2 \\ -1 & 1 & -3 & 1 & 0 & 1 & -1 & 2 \\ -1 & 1 & -4 & 1 & 0 & 2 & -2 & 3 \\ 0 & 1 & -4 & 1 & 0 & 2 & -2 & 2 \\ 0 & 1 & -3 & 1 & 0 & 1 & -2 & 2 \\ 0 & 1 & -2 & 1 & -1 & 1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & 0 & 0 & -1 & 1 & -2 \\ 0 & -1 & 2 & 0 & 0 & -1 & 1 & -2 \\ 0 & 0 & 3 & -1 & 0 & -1 & 1 & -3 \\ 0 & 0 & 4 & -1 & 0 & -2 & 2 & -4 \\ -1 & 0 & 4 & -1 & 0 & -2 & 2 & -3 \\ -1 & 0 & 3 & -1 & 0 & -1 & 2 & -3 \\ -1 & 0 & 2 & -1 & 1 & -1 & 1 & -2 \\ -1 & 0 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 1 & -2 & 2 & -2 \\ 1 & -1 & 0 & 0 & 1 & -2 & 3 & -3 \\ 1 & 0 & 0 & -1 & 2 & -3 & 4 & -4 \\ 2 & 0 & 0 & -1 & 2 & -4 & 6 & -6 \\ 1 & 0 & 1 & -1 & 1 & -3 & 5 & -5 \\ 0 & 0 & 1 & -1 & 1 & -2 & 4 & -4 \\ 0 & 0 & 1 & -1 & 1 & -1 & 2 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 1 & -2 & 1 & -1 \\ -1 & -1 & 1 & 0 & 2 & -3 & 2 & -1 \\ -2 & 0 & 2 & -1 & 3 & -4 & 2 & -1 \\ -2 & 0 & 2 & -1 & 4 & -6 & 4 & -2 \\ -2 & 0 & 2 & -1 & 3 & -5 & 4 & -2 \\ -2 & 0 & 2 & -1 & 2 & -3 & 3 & -2 \\ -1 & 0 & 1 & -1 & 2 & -2 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 2 & -2 & 2 \\ -1 & 1 & 0 & 0 & -1 & 2 & -3 & 3 \\ -1 & 1 & 1 & -1 & -1 & 3 & -4 & 4 \\ -2 & 1 & 1 & -1 & -1 & 4 & -6 & 6 \\ -1 & 1 & 0 & -1 & 0 & 3 & -5 & 5 \\ 0 & 1 & 0 & -1 & 0 & 2 & -4 & 4 \\ 0 & 1 & 0 & -1 & 0 & 1 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & -1 & 2 & -1 & 1 \\ 1 & 1 & -1 & 0 & -2 & 3 & -2 & 1 \\ 2 & 1 & -1 & -1 & -2 & 4 & -2 & 1 \\ 2 & 1 & -1 & -1 & -3 & 6 & -4 & 2 \\ 2 & 1 & -1 & -1 & -2 & 5 & -4 & 2 \\ 2 & 1 & -1 & -1 & -1 & 3 & -3 & 2 \\ 1 & 1 & 0 & -1 & -1 & 2 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & -2 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & -2 & -1 & 1 & 1 & -1 & 3 \\ 0 & 1 & -3 & -1 & 1 & 2 & -2 & 4 \\ 1 & 1 & -3 & -1 & 1 & 2 & -2 & 3 \\ 1 & 1 & -2 & -1 & 1 & 1 & -2 & 3 \\ 1 & 1 & -1 & -1 & 0 & 1 & -1 & 2 \\ 1 & 0 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 1 & 0 & 0 & -1 & 1 & -1 \\ 0 & -1 & 2 & 0 & 0 & -1 & 1 & -2 \\ 1 & -2 & 2 & 1 & -1 & -1 & 1 & -2 \\ 1 & -2 & 3 & 1 & -1 & -2 & 2 & -3 \\ 0 & -2 & 3 & 1 & -1 & -2 & 2 & -2 \\ 0 & -2 & 2 & 1 & -1 & -1 & 2 & -2 \\ 0 & -2 & 1 & 1 & 0 & -1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -2 & 2 & -1 \\ 1 & -1 & 0 & 0 & 1 & -2 & 3 & -3 \\ 2 & -2 & -1 & 1 & 1 & -3 & 4 & -3 \\ 3 & -2 & -1 & 1 & 1 & -4 & 6 & -5 \\ 2 & -2 & 0 & 1 & 0 & -3 & 5 & -4 \\ 1 & -2 & 0 & 1 & 0 & -2 & 4 & -3 \\ 1 & -2 & 0 & 1 & 0 & -1 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -1 & 1 & 0 & 2 & -3 & 2 & -1 \\ -1 & -2 & 1 & 1 & 2 & -4 & 2 & 0 \\ -1 & -2 & 1 & 1 & 3 & -6 & 4 & -1 \\ -1 & -2 & 1 & 1 & 2 & -5 & 4 & -1 \\ -1 & -2 & 1 & 1 & 1 & -3 & 3 & -1 \\ 0 & -2 & 0 & 1 & 1 & -2 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 2 & -2 & 1 \\ -1 & 1 & 0 & 0 & -1 & 2 & -3 & 3 \\ -2 & 2 & 1 & -1 & -1 & 3 & -4 & 3 \\ -3 & 2 & 1 & -1 & -1 & 4 & -6 & 5 \\ -2 & 2 & 0 & -1 & 0 & 3 & -5 & 4 \\ -1 & 2 & 0 & -1 & 0 & 2 & -4 & 3 \\ -1 & 2 & 0 & -1 & 0 & 1 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & -1 & 2 & -1 & 0 \\ 1 & 1 & -1 & 0 & -2 & 3 & -2 & 1 \\ 1 & 2 & -1 & -1 & -2 & 4 & -2 & 0 \\ 1 & 2 & -1 & -1 & -3 & 6 & -4 & 1 \\ 1 & 2 & -1 & -1 & -2 & 5 & -4 & 1 \\ 1 & 2 & -1 & -1 & -1 & 3 & -3 & 1 \\ 0 & 2 & 0 & -1 & -1 & 2 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & -1 & 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & -2 & 0 & 0 & 1 & -1 & 2 \\ -1 & 2 & -2 & -1 & 1 & 1 & -1 & 2 \\ -1 & 2 & -3 & -1 & 1 & 2 & -2 & 3 \\ 0 & 2 & -3 & -1 & 1 & 2 & -2 & 2 \\ 0 & 2 & -2 & -1 & 1 & 1 & -2 & 2 \\ 0 & 2 & -1 & -1 & 0 & 1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & 0 & 0 & -1 & 1 & -2 \\ 0 & -1 & 2 & 0 & 0 & -1 & 1 & -2 \\ 0 & -1 & 2 & 1 & -1 & -1 & 1 & -3 \\ 0 & -1 & 3 & 1 & -1 & -2 & 2 & -4 \\ -1 & -1 & 3 & 1 & -1 & -2 & 2 & -3 \\ -1 & -1 & 2 & 1 & -1 & -1 & 2 & -3 \\ -1 & -1 & 1 & 1 & 0 & -1 & 1 & -2 \\ -1 & 0 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 1 & -2 & 2 & -2 \\ 1 & -1 & 0 & 0 & 1 & -2 & 3 & -3 \\ 1 & -1 & -1 & 1 & 1 & -3 & 4 & -4 \\ 2 & -1 & -1 & 1 & 1 & -4 & 6 & -6 \\ 1 & -1 & 0 & 1 & 0 & -3 & 5 & -5 \\ 0 & -1 & 0 & 1 & 0 & -2 & 4 & -4 \\ 0 & -1 & 0 & 1 & 0 & -1 & 2 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 1 & -2 & 1 & -1 \\ -1 & -1 & 1 & 0 & 2 & -3 & 2 & -1 \\ -2 & -1 & 1 & 1 & 2 & -4 & 2 & -1 \\ -2 & -1 & 1 & 1 & 3 & -6 & 4 & -2 \\ -2 & -1 & 1 & 1 & 2 & -5 & 4 & -2 \\ -2 & -1 & 1 & 1 & 1 & -3 & 3 & -2 \\ -1 & -1 & 0 & 1 & 1 & -2 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & -2 & 2 \\ -1 & 0 & 0 & 1 & -1 & 1 & -3 & 3 \\ -1 & -1 & 1 & 1 & -1 & 1 & -4 & 4 \\ -1 & -1 & 0 & 2 & -1 & 1 & -6 & 6 \\ -1 & -1 & 0 & 2 & -1 & 0 & -4 & 5 \\ 0 & 0 & 0 & 1 & -1 & 0 & -3 & 4 \\ 0 & 0 & 0 & 0 & 0 & 0 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & -1 & 1 & -1 & 1 \\ 1 & 0 & -1 & 1 & -2 & 2 & -2 & 1 \\ 2 & -1 & -1 & 1 & -2 & 2 & -2 & 1 \\ 3 & -1 & -2 & 2 & -3 & 3 & -4 & 2 \\ 2 & -1 & -1 & 2 & -3 & 2 & -3 & 2 \\ 2 & 0 & -1 & 1 & -2 & 1 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -2 & 1 & 0 & 0 & -1 & 2 \\ 0 & -1 & -2 & 1 & 1 & -1 & -1 & 3 \\ 1 & -1 & -4 & 2 & 1 & -1 & -2 & 4 \\ 1 & -1 & -3 & 2 & 0 & -1 & -1 & 3 \\ 1 & 0 & -2 & 1 & 0 & -1 & -1 & 3 \\ 1 & 0 & -1 & 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 2 & -1 & 0 & 0 & 1 & -2 \\ 1 & 0 & 2 & -1 & -1 & 1 & 1 & -2 \\ 0 & 0 & 4 & -2 & -1 & 1 & 2 & -3 \\ 0 & 0 & 3 & -2 & 0 & 1 & 1 & -2 \\ 0 & -1 & 2 & -1 & 0 & 1 & 1 & -2 \\ 0 & -1 & 1 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 1 & -1 & 2 & -1 \\ 1 & 0 & 0 & -1 & 1 & -1 & 3 & -3 \\ 2 & 0 & -1 & -1 & 1 & -1 & 4 & -3 \\ 2 & 0 & 0 & -2 & 1 & -1 & 6 & -5 \\ 2 & 0 & 0 & -2 & 1 & 0 & 4 & -4 \\ 1 & -1 & 0 & -1 & 1 & 0 & 3 & -3 \\ 1 & -1 & 0 & 0 & 0 & 0 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -1 & 1 & -1 & 1 & 0 \\ -1 & 0 & 1 & -1 & 2 & -2 & 2 & -1 \\ -1 & 0 & 1 & -1 & 2 & -2 & 2 & 0 \\ -2 & 0 & 2 & -2 & 3 & -3 & 4 & -1 \\ -1 & 0 & 1 & -2 & 3 & -2 & 3 & -1 \\ -1 & -1 & 1 & -1 & 2 & -1 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 & 1 & -2 & 1 \\ -1 & 0 & 0 & 1 & -1 & 1 & -3 & 3 \\ -2 & 0 & 1 & 1 & -1 & 1 & -4 & 3 \\ -2 & 0 & 0 & 2 & -1 & 1 & -6 & 5 \\ -2 & 0 & 0 & 2 & -1 & 0 & -4 & 4 \\ -1 & 1 & 0 & 1 & -1 & 0 & -3 & 3 \\ -1 & 1 & 0 & 0 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & -1 & 1 & -1 & 0 \\ 1 & 0 & -1 & 1 & -2 & 2 & -2 & 1 \\ 1 & 0 & -1 & 1 & -2 & 2 & -2 & 0 \\ 2 & 0 & -2 & 2 & -3 & 3 & -4 & 1 \\ 1 & 0 & -1 & 2 & -3 & 2 & -3 & 1 \\ 1 & 1 & -1 & 1 & -2 & 1 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -2 & 1 & 0 & 0 & -1 & 2 \\ -1 & 0 & -2 & 1 & 1 & -1 & -1 & 2 \\ 0 & 0 & -4 & 2 & 1 & -1 & -2 & 3 \\ 0 & 0 & -3 & 2 & 0 & -1 & -1 & 2 \\ 0 & 1 & -2 & 1 & 0 & -1 & -1 & 2 \\ 0 & 1 & -1 & 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 1 & -1 & 0 & 0 & 1 & -2 \\ 0 & 0 & 2 & -1 & 0 & 0 & 1 & -2 \\ 0 & 1 & 2 & -1 & -1 & 1 & 1 & -3 \\ -1 & 1 & 4 & -2 & -1 & 1 & 2 & -4 \\ -1 & 1 & 3 & -2 & 0 & 1 & 1 & -3 \\ -1 & 0 & 2 & -1 & 0 & 1 & 1 & -3 \\ -1 & 0 & 1 & 0 & 0 & 0 & 1 & -2 \\ -1 & 0 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 1 & -1 & 2 & -2 \\ 1 & 0 & 0 & -1 & 1 & -1 & 3 & -3 \\ 1 & 1 & -1 & -1 & 1 & -1 & 4 & -4 \\ 1 & 1 & 0 & -2 & 1 & -1 & 6 & -6 \\ 1 & 1 & 0 & -2 & 1 & 0 & 4 & -5 \\ 0 & 0 & 0 & -1 & 1 & 0 & 3 & -4 \\ 0 & 0 & 0 & 0 & 0 & 0 & 2 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 1 & -1 & 1 & -1 \\ -1 & 0 & 1 & -1 & 2 & -2 & 2 & -1 \\ -2 & 1 & 1 & -1 & 2 & -2 & 2 & -1 \\ -3 & 1 & 2 & -2 & 3 & -3 & 4 & -2 \\ -2 & 1 & 1 & -2 & 3 & -2 & 3 & -2 \\ -2 & 0 & 1 & -1 & 2 & -1 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & -2 & 2 \\ 0 & 1 & -1 & 1 & -1 & 1 & -3 & 3 \\ 1 & 1 & -1 & 1 & -1 & 1 & -4 & 4 \\ 1 & 1 & -2 & 2 & -1 & 1 & -6 & 6 \\ 1 & 1 & -2 & 2 & -1 & 0 & -4 & 5 \\ 1 & 1 & -1 & 1 & -1 & 0 & -3 & 4 \\ 1 & 1 & -1 & 0 & 0 & 0 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -2 & 1 & -1 & 1 & -1 & 1 \\ 2 & 1 & -2 & 1 & -2 & 2 & -2 & 1 \\ 4 & 1 & -3 & 1 & -2 & 2 & -2 & 1 \\ 5 & 1 & -4 & 2 & -3 & 3 & -4 & 2 \\ 4 & 1 & -3 & 2 & -3 & 2 & -3 & 2 \\ 3 & 1 & -2 & 1 & -2 & 1 & -2 & 2 \\ 2 & 1 & -1 & 0 & -1 & 1 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -2 & 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & -3 & 1 & 0 & 0 & -1 & 2 \\ 2 & 1 & -4 & 1 & 1 & -1 & -1 & 3 \\ 3 & 1 & -6 & 2 & 1 & -1 & -2 & 4 \\ 3 & 1 & -5 & 2 & 0 & -1 & -1 & 3 \\ 2 & 1 & -3 & 1 & 0 & -1 & -1 & 3 \\ 2 & 1 & -2 & 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 2 & -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & 3 & -1 & 0 & 0 & 1 & -2 \\ -1 & -2 & 4 & -1 & -1 & 1 & 1 & -2 \\ -2 & -2 & 6 & -2 & -1 & 1 & 2 & -3 \\ -2 & -2 & 5 & -2 & 0 & 1 & 1 & -2 \\ -1 & -2 & 3 & -1 & 0 & 1 & 1 & -2 \\ -1 & -2 & 2 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 1 & -1 & 2 & -1 \\ 0 & -1 & 1 & -1 & 1 & -1 & 3 & -3 \\ 0 & -2 & 1 & -1 & 1 & -1 & 4 & -3 \\ 0 & -2 & 2 & -2 & 1 & -1 & 6 & -5 \\ 0 & -2 & 2 & -2 & 1 & 0 & 4 & -4 \\ 0 & -2 & 1 & -1 & 1 & 0 & 3 & -3 \\ 0 & -2 & 1 & 0 & 0 & 0 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 2 & -1 & 1 & -1 & 1 & 0 \\ -2 & -1 & 2 & -1 & 2 & -2 & 2 & -1 \\ -3 & -2 & 3 & -1 & 2 & -2 & 2 & 0 \\ -4 & -2 & 4 & -2 & 3 & -3 & 4 & -1 \\ -3 & -2 & 3 & -2 & 3 & -2 & 3 & -1 \\ -2 & -2 & 2 & -1 & 2 & -1 & 2 & -1 \\ -1 & -2 & 1 & 0 & 1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & 1 & -1 & 1 & -2 & 1 \\ 0 & 1 & -1 & 1 & -1 & 1 & -3 & 3 \\ 0 & 2 & -1 & 1 & -1 & 1 & -4 & 3 \\ 0 & 2 & -2 & 2 & -1 & 1 & -6 & 5 \\ 0 & 2 & -2 & 2 & -1 & 0 & -4 & 4 \\ 0 & 2 & -1 & 1 & -1 & 0 & -3 & 3 \\ 0 & 2 & -1 & 0 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -2 & 1 & -1 & 1 & -1 & 0 \\ 2 & 1 & -2 & 1 & -2 & 2 & -2 & 1 \\ 3 & 2 & -3 & 1 & -2 & 2 & -2 & 0 \\ 4 & 2 & -4 & 2 & -3 & 3 & -4 & 1 \\ 3 & 2 & -3 & 2 & -3 & 2 & -3 & 1 \\ 2 & 2 & -2 & 1 & -2 & 1 & -2 & 1 \\ 1 & 2 & -1 & 0 & -1 & 1 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -2 & 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & -3 & 1 & 0 & 0 & -1 & 2 \\ 1 & 2 & -4 & 1 & 1 & -1 & -1 & 2 \\ 2 & 2 & -6 & 2 & 1 & -1 & -2 & 3 \\ 2 & 2 & -5 & 2 & 0 & -1 & -1 & 2 \\ 1 & 2 & -3 & 1 & 0 & -1 & -1 & 2 \\ 1 & 2 & -2 & 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 0 & 1 & -2 \\ -1 & -1 & 3 & -1 & 0 & 0 & 1 & -2 \\ -2 & -1 & 4 & -1 & -1 & 1 & 1 & -3 \\ -3 & -1 & 6 & -2 & -1 & 1 & 2 & -4 \\ -3 & -1 & 5 & -2 & 0 & 1 & 1 & -3 \\ -2 & -1 & 3 & -1 & 0 & 1 & 1 & -3 \\ -2 & -1 & 2 & 0 & 0 & 0 & 1 & -2 \\ -1 & 0 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 1 & -1 & 2 & -2 \\ 0 & -1 & 1 & -1 & 1 & -1 & 3 & -3 \\ -1 & -1 & 1 & -1 & 1 & -1 & 4 & -4 \\ -1 & -1 & 2 & -2 & 1 & -1 & 6 & -6 \\ -1 & -1 & 2 & -2 & 1 & 0 & 4 & -5 \\ -1 & -1 & 1 & -1 & 1 & 0 & 3 & -4 \\ -1 & -1 & 1 & 0 & 0 & 0 & 2 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 2 & -1 & 1 & -1 & 1 & -1 \\ -2 & -1 & 2 & -1 & 2 & -2 & 2 & -1 \\ -4 & -1 & 3 & -1 & 2 & -2 & 2 & -1 \\ -5 & -1 & 4 & -2 & 3 & -3 & 4 & -2 \\ -4 & -1 & 3 & -2 & 3 & -2 & 3 & -2 \\ -3 & -1 & 2 & -1 & 2 & -1 & 2 & -2 \\ -2 & -1 & 1 & 0 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 1 & -1 & 2 \\ -1 & 1 & 0 & 1 & -2 & 1 & -2 & 3 \\ -1 & 0 & 0 & 2 & -3 & 2 & -3 & 4 \\ -2 & 0 & 0 & 3 & -4 & 2 & -4 & 6 \\ -1 & 0 & -1 & 3 & -3 & 1 & -3 & 5 \\ 0 & 0 & -1 & 2 & -2 & 1 & -3 & 4 \\ 0 & 0 & -1 & 1 & -1 & 1 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -2 & 1 & 0 & 1 \\ 1 & 1 & -1 & 1 & -3 & 2 & -1 & 1 \\ 2 & 0 & -2 & 2 & -4 & 3 & -1 & 1 \\ 2 & 0 & -2 & 3 & -6 & 4 & -2 & 2 \\ 2 & 0 & -2 & 3 & -5 & 3 & -2 & 2 \\ 2 & 0 & -2 & 2 & -3 & 2 & -2 & 2 \\ 1 & 0 & -1 & 1 & -2 & 2 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & -1 & 0 & 0 & 2 \\ 0 & 1 & -2 & 1 & -1 & 0 & 0 & 2 \\ 0 & 0 & -3 & 2 & -1 & 0 & 0 & 3 \\ 0 & 0 & -4 & 3 & -2 & 0 & 0 & 4 \\ 1 & 0 & -4 & 3 & -2 & 0 & 0 & 3 \\ 1 & 0 & -3 & 2 & -1 & 0 & -1 & 3 \\ 1 & 0 & -2 & 1 & -1 & 1 & -1 & 2 \\ 1 & 0 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 1 & -1 & 1 & 0 & 0 & -1 \\ 0 & -1 & 2 & -1 & 1 & 0 & 0 & -2 \\ 1 & -1 & 3 & -2 & 1 & 0 & 0 & -2 \\ 1 & -1 & 4 & -3 & 2 & 0 & 0 & -3 \\ 0 & -1 & 4 & -3 & 2 & 0 & 0 & -2 \\ 0 & -1 & 3 & -2 & 1 & 0 & 1 & -2 \\ 0 & -1 & 2 & -1 & 1 & -1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 1 & -1 \\ 1 & -1 & 0 & -1 & 2 & -1 & 2 & -3 \\ 2 & -1 & 0 & -2 & 3 & -2 & 3 & -3 \\ 3 & -1 & 0 & -3 & 4 & -2 & 4 & -5 \\ 2 & -1 & 1 & -3 & 3 & -1 & 3 & -4 \\ 1 & -1 & 1 & -2 & 2 & -1 & 3 & -3 \\ 1 & -1 & 1 & -1 & 1 & -1 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 2 & -1 & 0 & 0 \\ -1 & -1 & 1 & -1 & 3 & -2 & 1 & -1 \\ -1 & -1 & 2 & -2 & 4 & -3 & 1 & 0 \\ -1 & -1 & 2 & -3 & 6 & -4 & 2 & -1 \\ -1 & -1 & 2 & -3 & 5 & -3 & 2 & -1 \\ -1 & -1 & 2 & -2 & 3 & -2 & 2 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & -1 & 1 \\ -1 & 1 & 0 & 1 & -2 & 1 & -2 & 3 \\ -2 & 1 & 0 & 2 & -3 & 2 & -3 & 3 \\ -3 & 1 & 0 & 3 & -4 & 2 & -4 & 5 \\ -2 & 1 & -1 & 3 & -3 & 1 & -3 & 4 \\ -1 & 1 & -1 & 2 & -2 & 1 & -3 & 3 \\ -1 & 1 & -1 & 1 & -1 & 1 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & -2 & 1 & 0 & 0 \\ 1 & 1 & -1 & 1 & -3 & 2 & -1 & 1 \\ 1 & 1 & -2 & 2 & -4 & 3 & -1 & 0 \\ 1 & 1 & -2 & 3 & -6 & 4 & -2 & 1 \\ 1 & 1 & -2 & 3 & -5 & 3 & -2 & 1 \\ 1 & 1 & -2 & 2 & -3 & 2 & -2 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & 1 & -2 & 1 & -1 & 0 & 0 & 2 \\ -1 & 1 & -3 & 2 & -1 & 0 & 0 & 2 \\ -1 & 1 & -4 & 3 & -2 & 0 & 0 & 3 \\ 0 & 1 & -4 & 3 & -2 & 0 & 0 & 2 \\ 0 & 1 & -3 & 2 & -1 & 0 & -1 & 2 \\ 0 & 1 & -2 & 1 & -1 & 1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & -1 & 1 & 0 & 0 & -2 \\ 0 & -1 & 2 & -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 3 & -2 & 1 & 0 & 0 & -3 \\ 0 & 0 & 4 & -3 & 2 & 0 & 0 & -4 \\ -1 & 0 & 4 & -3 & 2 & 0 & 0 & -3 \\ -1 & 0 & 3 & -2 & 1 & 0 & 1 & -3 \\ -1 & 0 & 2 & -1 & 1 & -1 & 1 & -2 \\ -1 & 0 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -1 & 1 & -2 \\ 1 & -1 & 0 & -1 & 2 & -1 & 2 & -3 \\ 1 & 0 & 0 & -2 & 3 & -2 & 3 & -4 \\ 2 & 0 & 0 & -3 & 4 & -2 & 4 & -6 \\ 1 & 0 & 1 & -3 & 3 & -1 & 3 & -5 \\ 0 & 0 & 1 & -2 & 2 & -1 & 3 & -4 \\ 0 & 0 & 1 & -1 & 1 & -1 & 2 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 2 & -1 & 0 & -1 \\ -1 & -1 & 1 & -1 & 3 & -2 & 1 & -1 \\ -2 & 0 & 2 & -2 & 4 & -3 & 1 & -1 \\ -2 & 0 & 2 & -3 & 6 & -4 & 2 & -2 \\ -2 & 0 & 2 & -3 & 5 & -3 & 2 & -2 \\ -2 & 0 & 2 & -2 & 3 & -2 & 2 & -2 \\ -1 & 0 & 1 & -1 & 2 & -2 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 1 & -1 & 2 \\ -1 & 1 & 0 & 1 & -2 & 1 & -2 & 3 \\ -1 & 1 & 1 & 1 & -3 & 1 & -2 & 4 \\ -2 & 1 & 1 & 2 & -4 & 1 & -3 & 6 \\ -1 & 1 & 0 & 2 & -3 & 0 & -2 & 5 \\ 0 & 1 & 0 & 1 & -2 & 0 & -2 & 4 \\ 0 & 1 & 0 & 0 & -1 & 0 & -1 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -2 & 1 & 0 & 1 \\ 1 & 1 & -1 & 1 & -3 & 2 & -1 & 1 \\ 2 & 1 & -1 & 1 & -4 & 2 & 0 & 1 \\ 2 & 1 & -1 & 2 & -6 & 3 & -1 & 2 \\ 2 & 1 & -1 & 2 & -5 & 2 & -1 & 2 \\ 2 & 1 & -1 & 1 & -3 & 1 & -1 & 2 \\ 1 & 1 & 0 & 0 & -2 & 1 & -1 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & -1 & 0 & 0 & 2 \\ 0 & 1 & -2 & 1 & -1 & 0 & 0 & 2 \\ 0 & 1 & -2 & 1 & -1 & -1 & 1 & 3 \\ 0 & 1 & -3 & 2 & -2 & -1 & 1 & 4 \\ 1 & 1 & -3 & 2 & -2 & -1 & 1 & 3 \\ 1 & 1 & -2 & 1 & -1 & -1 & 0 & 3 \\ 1 & 1 & -1 & 0 & -1 & 0 & 0 & 2 \\ 1 & 0 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 1 & -1 & 1 & 0 & 0 & -1 \\ 0 & -1 & 2 & -1 & 1 & 0 & 0 & -2 \\ 1 & -2 & 2 & -1 & 1 & 1 & -1 & -2 \\ 1 & -2 & 3 & -2 & 2 & 1 & -1 & -3 \\ 0 & -2 & 3 & -2 & 2 & 1 & -1 & -2 \\ 0 & -2 & 2 & -1 & 1 & 1 & 0 & -2 \\ 0 & -2 & 1 & 0 & 1 & 0 & 0 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 1 & -1 \\ 1 & -1 & 0 & -1 & 2 & -1 & 2 & -3 \\ 2 & -2 & -1 & -1 & 3 & -1 & 2 & -3 \\ 3 & -2 & -1 & -2 & 4 & -1 & 3 & -5 \\ 2 & -2 & 0 & -2 & 3 & 0 & 2 & -4 \\ 1 & -2 & 0 & -1 & 2 & 0 & 2 & -3 \\ 1 & -2 & 0 & 0 & 1 & 0 & 1 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 2 & -1 & 0 & 0 \\ -1 & -1 & 1 & -1 & 3 & -2 & 1 & -1 \\ -1 & -2 & 1 & -1 & 4 & -2 & 0 & 0 \\ -1 & -2 & 1 & -2 & 6 & -3 & 1 & -1 \\ -1 & -2 & 1 & -2 & 5 & -2 & 1 & -1 \\ -1 & -2 & 1 & -1 & 3 & -1 & 1 & -1 \\ 0 & -2 & 0 & 0 & 2 & -1 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & -1 & 1 \\ -1 & 1 & 0 & 1 & -2 & 1 & -2 & 3 \\ -2 & 2 & 1 & 1 & -3 & 1 & -2 & 3 \\ -3 & 2 & 1 & 2 & -4 & 1 & -3 & 5 \\ -2 & 2 & 0 & 2 & -3 & 0 & -2 & 4 \\ -1 & 2 & 0 & 1 & -2 & 0 & -2 & 3 \\ -1 & 2 & 0 & 0 & -1 & 0 & -1 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & -2 & 1 & 0 & 0 \\ 1 & 1 & -1 & 1 & -3 & 2 & -1 & 1 \\ 1 & 2 & -1 & 1 & -4 & 2 & 0 & 0 \\ 1 & 2 & -1 & 2 & -6 & 3 & -1 & 1 \\ 1 & 2 & -1 & 2 & -5 & 2 & -1 & 1 \\ 1 & 2 & -1 & 1 & -3 & 1 & -1 & 1 \\ 0 & 2 & 0 & 0 & -2 & 1 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & 1 & -2 & 1 & -1 & 0 & 0 & 2 \\ -1 & 2 & -2 & 1 & -1 & -1 & 1 & 2 \\ -1 & 2 & -3 & 2 & -2 & -1 & 1 & 3 \\ 0 & 2 & -3 & 2 & -2 & -1 & 1 & 2 \\ 0 & 2 & -2 & 1 & -1 & -1 & 0 & 2 \\ 0 & 2 & -1 & 0 & -1 & 0 & 0 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & -1 & 1 & 0 & 0 & -2 \\ 0 & -1 & 2 & -1 & 1 & 0 & 0 & -2 \\ 0 & -1 & 2 & -1 & 1 & 1 & -1 & -3 \\ 0 & -1 & 3 & -2 & 2 & 1 & -1 & -4 \\ -1 & -1 & 3 & -2 & 2 & 1 & -1 & -3 \\ -1 & -1 & 2 & -1 & 1 & 1 & 0 & -3 \\ -1 & -1 & 1 & 0 & 1 & 0 & 0 & -2 \\ -1 & 0 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -1 & 1 & -2 \\ 1 & -1 & 0 & -1 & 2 & -1 & 2 & -3 \\ 1 & -1 & -1 & -1 & 3 & -1 & 2 & -4 \\ 2 & -1 & -1 & -2 & 4 & -1 & 3 & -6 \\ 1 & -1 & 0 & -2 & 3 & 0 & 2 & -5 \\ 0 & -1 & 0 & -1 & 2 & 0 & 2 & -4 \\ 0 & -1 & 0 & 0 & 1 & 0 & 1 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 2 & -1 & 0 & -1 \\ -1 & -1 & 1 & -1 & 3 & -2 & 1 & -1 \\ -2 & -1 & 1 & -1 & 4 & -2 & 0 & -1 \\ -2 & -1 & 1 & -2 & 6 & -3 & 1 & -2 \\ -2 & -1 & 1 & -2 & 5 & -2 & 1 & -2 \\ -2 & -1 & 1 & -1 & 3 & -1 & 1 & -2 \\ -1 & -1 & 0 & 0 & 2 & -1 & 1 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix}.$$

The character table of G^{s106}:

										10										20				
$\chi_{106}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(2)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{106}^{(3)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(4)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{106}^{(5)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(6)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{106}^{(7)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(9)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(10)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(11)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(12)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(13)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(14)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(15)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(16)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(17)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A
$\chi_{106}^{(18)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A
$\chi_{106}^{(19)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(20)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(21)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(22)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(23)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(24)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(25)}$	5	5	5	5	5	5	5	5	5	5	5	5	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
$\chi_{106}^{(26)}$	5	5	5	5	5	5	5	5	5	5	5	5	3	3	3	3	3	3	3	3	3	3	3	3
$\chi_{106}^{(27)}$	5	5	5	-5	-5	-5	5	5	5	-5	-5	-5	-3	-3	-3	3	3	3	-3	-3	-3	3	3	3
$\chi_{106}^{(28)}$	5	5	5	-5	-5	-5	5	5	5	-5	-5	-5	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3
$\chi_{106}^{(29)}$	5	5	5	5	5	5	-5	-5	-5	-5	-5	-5	-3	-3	-3	-3	-3	-3	3	3	3	3	3	3
$\chi_{106}^{(30)}$	5	5	5	5	5	5	-5	-5	-5	-5	-5	-5	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3
$\chi_{106}^{(31)}$	5	5	5	-5	-5	-5	-5	-5	-5	5	5	5	-3	-3	-3	3	3	3	3	3	3	-3	-3	-3
$\chi_{106}^{(32)}$	5	5	5	-5	-5	-5	-5	-5	-5	5	5	5	3	3	3	-3	-3	-3	-3	-3	-3	3	3	3
$\chi_{106}^{(33)}$	5	5	5	5	5	5	5	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(34)}$	5	5	5	5	5	5	5	5	5	5	5	5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(35)}$	5	5	5	-5	-5	-5	5	5	5	-5	-5	-5	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(36)}$	5	5	5	-5	-5	-5	5	5	5	-5	-5	-5	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{106}^{(37)}$	5	5	5	5	5	5	-5	-5	-5	-5	-5	-5	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(38)}$	5	5	5	5	5	5	-5	-5	-5	-5	-5	-5	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{106}^{(39)}$	5	5	5	-5	-5	-5	-5	-5	-5	5	5	5	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(40)}$	5	5	5	-5	-5	-5	-5	-5	-5	5	5	5	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{106}^{(41)}$	5	B	/B	/B	5	B	5	B	/B	/B	5	B	-3	F	/F	/F	-3	F	-3	F	/F	/F	-3	F
$\chi_{106}^{(42)}$	5	/B	B	B	5	/B	5	/B	B	B	5	/B	-3	/F	F	F	-3	/F	-3	/F	F	F	-3	/F
$\chi_{106}^{(43)}$	5	B	/B	/B	5	B	5	B	/B	/B	5	B	3	-F	-/F	-/F	3	-F	3	-F	-/F	-/F	3	-F
$\chi_{106}^{(44)}$	5	/B	B	B	5	/B	5	/B	B	B	5	/B	3	-/F	-F	-F	3	-/F	3	-/F	-F	-F	3	-/F
$\chi_{106}^{(45)}$	5	B	/B	-/B	-5	-B	5	B	/B	-/B	-5	-B	-3	F	/F	-/F	3	-F	-3	F	/F	-/F	3	-F

									10												20			
$\chi_{106}^{(46)}$	5	/B	B	-B	-5	-/B	5	/B	B	-B	-5	-/B	-3	/F	F	-F	3	-/F	-3	/F	F	-F	3	-/F
$\chi_{106}^{(47)}$	5	B	/B	-/B	-5	-B	5	B	/B	-/B	-5	-B	3	-F	-/F	/F	-3	F	3	-F	-/F	/F	-3	F
$\chi_{106}^{(48)}$	5	/B	B	-B	-5	-/B	5	/B	B	-B	-5	-/B	3	-/F	-F	F	-3	/F	3	-/F	-F	F	-3	/F
$\chi_{106}^{(49)}$	5	B	/B	/B	5	B	-5	-B	-/B	-/B	-5	-B	-3	F	/F	/F	-3	F	3	-F	-/F	-/F	3	-F
$\chi_{106}^{(50)}$	5	/B	B	B	5	/B	-5	-/B	-B	-B	-5	-/B	-3	/F	F	F	-3	/F	3	-/F	-F	-F	3	-/F
$\chi_{106}^{(51)}$	5	B	/B	/B	5	B	-5	-B	-/B	-/B	-5	-B	3	-F	-/F	-/F	3	-F	-3	F	/F	/F	-3	F
$\chi_{106}^{(52)}$	5	/B	B	B	5	/B	-5	-/B	-B	-B	-5	-/B	3	-/F	-F	-F	3	-/F	-3	/F	F	F	-3	/F
$\chi_{106}^{(53)}$	5	B	/B	-/B	-5	-B	-5	-B	-/B	/B	5	B	-3	F	/F	-/F	3	-F	3	-F	-/F	/F	-3	F
$\chi_{106}^{(54)}$	5	/B	B	-B	-5	-/B	-5	-/B	-B	B	5	/B	-3	/F	F	-F	3	-/F	3	-/F	-F	F	-3	/F
$\chi_{106}^{(55)}$	5	B	/B	-/B	-5	-B	-5	-B	-/B	/B	5	B	3	-F	-/F	/F	-3	F	-3	F	/F	-/F	3	-F
$\chi_{106}^{(56)}$	5	/B	B	-B	-5	-/B	-5	-/B	-B	B	5	/B	3	-/F	-F	F	-3	/F	-3	/F	F	-F	3	-/F
$\chi_{106}^{(57)}$	5	B	/B	/B	5	B	5	B	/B	/B	5	B	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(58)}$	5	/B	B	B	5	/B	5	/B	B	B	5	/B	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(59)}$	5	B	/B	/B	5	B	5	B	/B	/B	5	B	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(60)}$	5	/B	B	B	5	/B	5	/B	B	B	5	/B	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(61)}$	5	B	/B	-/B	-5	-B	5	B	/B	-/B	-5	-B	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(62)}$	5	/B	B	-B	-5	-/B	5	/B	B	-B	-5	-/B	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(63)}$	5	B	/B	-/B	-5	-B	5	B	/B	-/B	-5	-B	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(64)}$	5	/B	B	-B	-5	-/B	5	/B	B	-B	-5	-/B	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(65)}$	5	B	/B	/B	5	B	-5	-B	-/B	-/B	-5	-B	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(66)}$	5	/B	B	B	5	/B	-5	-/B	-B	-B	-5	-/B	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(67)}$	5	B	/B	/B	5	B	-5	-B	-/B	-/B	-5	-B	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A
$\chi_{106}^{(68)}$	5	/B	B	B	5	/B	-5	-/B	-B	-B	-5	-/B	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A
$\chi_{106}^{(69)}$	5	B	/B	-/B	-5	-B	-5	-B	-/B	/B	5	B	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(70)}$	5	/B	B	-B	-5	-/B	-5	-/B	-B	B	5	/B	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(71)}$	5	B	/B	-/B	-5	-B	-5	-B	-/B	/B	5	B	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(72)}$	5	/B	B	-B	-5	-/B	-5	-/B	-B	B	5	/B	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(73)}$	9	9	9	9	9	9	9	9	9	9	9	9	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
$\chi_{106}^{(74)}$	9	9	9	9	9	9	9	9	9	9	9	9	3	3	3	3	3	3	3	3	3	3	3	3
$\chi_{106}^{(75)}$	9	9	9	-9	-9	-9	9	9	9	-9	-9	-9	-3	-3	-3	3	3	3	-3	-3	-3	3	3	3
$\chi_{106}^{(76)}$	9	9	9	-9	-9	-9	9	9	9	-9	-9	-9	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3
$\chi_{106}^{(77)}$	9	9	9	9	9	9	-9	-9	-9	-9	-9	-9	-3	-3	-3	-3	-3	-3	3	3	3	3	3	3
$\chi_{106}^{(78)}$	9	9	9	9	9	9	-9	-9	-9	-9	-9	-9	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3
$\chi_{106}^{(79)}$	9	9	9	-9	-9	-9	-9	-9	-9	9	9	9	-3	-3	-3	3	3	3	3	3	3	-3	-3	-3
$\chi_{106}^{(80)}$	9	9	9	-9	-9	-9	-9	-9	-9	9	9	9	3	3	3	-3	-3	-3	-3	-3	-3	3	3	3
$\chi_{106}^{(81)}$	9	C	/C	/C	9	C	9	C	/C	/C	9	C	-3	F	/F	/F	-3	F	-3	F	/F	/F	-3	F
$\chi_{106}^{(82)}$	9	/C	C	C	9	/C	9	/C	C	C	9	/C	-3	/F	F	F	-3	/F	-3	/F	F	F	-3	/F
$\chi_{106}^{(83)}$	9	C	/C	/C	9	C	9	C	/C	/C	9	C	3	-F	-/F	-/F	3	-F	3	-F	-/F	-/F	3	-F
$\chi_{106}^{(84)}$	9	/C	C	C	9	/C	9	/C	C	C	9	/C	3	-/F	-F	-F	3	-/F	3	-/F	-F	-F	3	-/F
$\chi_{106}^{(85)}$	9	C	/C	-/C	-9	-C	9	C	/C	-/C	-9	-C	-3	F	/F	-/F	3	-F	-3	F	/F	-/F	3	-F
$\chi_{106}^{(86)}$	9	/C	C	-C	-9	-/C	9	/C	C	-C	-9	-/C	-3	/F	F	-F	3	-/F	-3	/F	F	-F	3	-/F
$\chi_{106}^{(87)}$	9	C	/C	-/C	-9	-C	9	C	/C	-/C	-9	-C	3	-F	-/F	/F	-3	F	3	-F	-/F	/F	-3	F
$\chi_{106}^{(88)}$	9	/C	C	-C	-9	-/C	9	/C	C	-C	-9	-/C	3	-/F	-F	F	-3	/F	3	-/F	-F	F	-3	/F
$\chi_{106}^{(89)}$	9	C	/C	/C	9	C	-9	-C	-/C	-/C	-9	-C	-3	F	/F	/F	-3	F	3	-F	-/F	-/F	3	-F
$\chi_{106}^{(90)}$	9	/C	C	C	9	/C	-9	-/C	-C	-C	-9	-/C	-3	/F	F	F	-3	/F	3	-/F	-F	-F	3	-/F

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$\chi_{106}^{(91)}$	9	C	/C	/C	9	C	-9	-C	-/C	-/C	-9	-C	3	-F	-/F	-/F	3	-F	-3	F	/F	/F	-3	F
$\chi_{106}^{(92)}$	9	/C	C	C	9	/C	-9	-/C	-C	-C	-9	-/C	3	-/F	-F	-F	3	-/F	-3	/F	F	F	-3	/F
$\chi_{106}^{(93)}$	9	C	/C	-/C	-9	-C	-9	-C	-/C	/C	9	C	-3	F	/F	-/F	3	-F	3	-F	-/F	/F	-3	F
$\chi_{106}^{(94)}$	9	/C	C	-C	-9	-/C	-9	-/C	-C	C	9	/C	-3	/F	F	-F	3	-/F	3	-/F	-F	F	-3	/F
$\chi_{106}^{(95)}$	9	C	/C	-/C	-9	-C	-9	-C	-/C	/C	9	C	3	-F	-/F	/F	-3	F	-3	F	/F	-/F	3	-F
$\chi_{106}^{(96)}$	9	/C	C	-C	-9	-/C	-9	-/C	-C	C	9	/C	3	-/F	-F	F	-3	/F	-3	/F	F	-F	3	-/F
$\chi_{106}^{(97)}$	10	10	10	10	10	10	10	10	10	10	10	10	2	2	2	2	2	2	2	2	2	2	2	2
$\chi_{106}^{(98)}$	10	10	10	10	10	10	10	10	10	10	10	10	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{106}^{(99)}$	10	10	10	-10	-10	-10	10	10	10	-10	-10	-10	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2
$\chi_{106}^{(100)}$	10	10	10	-10	-10	-10	10	10	10	-10	-10	-10	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2
$\chi_{106}^{(101)}$	10	10	10	10	10	10	-10	-10	-10	-10	-10	-10	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
$\chi_{106}^{(102)}$	10	10	10	10	10	10	-10	-10	-10	-10	-10	-10	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2
$\chi_{106}^{(103)}$	10	10	10	-10	-10	-10	-10	-10	-10	10	10	10	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2
$\chi_{106}^{(104)}$	10	10	10	-10	-10	-10	-10	-10	-10	10	10	10	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{106}^{(105)}$	10	D	/D	/D	10	D	10	D	/D	/D	10	D	2	G	/G	/G	2	G	2	G	/G	/G	2	G
$\chi_{106}^{(106)}$	10	/D	D	D	10	/D	10	/D	D	D	10	/D	2	/G	G	G	2	/G	2	/G	G	G	2	/G
$\chi_{106}^{(107)}$	10	D	/D	/D	10	D	10	D	/D	/D	10	D	-2	-G	-/G	-/G	-2	-G	-2	-G	-/G	-/G	-2	-G
$\chi_{106}^{(108)}$	10	/D	D	D	10	/D	10	/D	D	D	10	/D	-2	-/G	-G	-G	-2	-/G	-2	-/G	-G	-G	-2	-/G
$\chi_{106}^{(109)}$	10	D	/D	-/D	-10	-D	10	D	/D	-/D	-10	-D	2	G	/G	-/G	-2	-G	2	G	/G	-/G	-2	-G
$\chi_{106}^{(110)}$	10	/D	D	-D	-10	-/D	10	/D	D	-D	-10	-/D	2	/G	G	-G	-2	-/G	2	/G	G	-G	-2	-/G
$\chi_{106}^{(111)}$	10	D	/D	-/D	-10	-D	10	D	/D	-/D	-10	-D	-2	-G	-/G	/G	2	G	-2	-G	-/G	/G	2	G
$\chi_{106}^{(112)}$	10	/D	D	-D	-10	-/D	10	/D	D	-D	-10	-/D	-2	-/G	-G	G	2	/G	-2	-/G	-G	G	2	/G
$\chi_{106}^{(113)}$	10	D	/D	/D	10	D	-10	-D	-/D	-/D	-10	-D	2	G	/G	/G	2	G	-2	-G	-/G	-/G	-2	-G
$\chi_{106}^{(114)}$	10	/D	D	D	10	/D	-10	-/D	-D	-D	-10	-/D	2	/G	G	G	2	/G	-2	-/G	-G	-G	-2	-/G
$\chi_{106}^{(115)}$	10	D	/D	/D	10	D	-10	-D	-/D	-/D	-10	-D	-2	-G	-/G	-/G	-2	-G	2	G	/G	/G	2	G
$\chi_{106}^{(116)}$	10	/D	D	D	10	/D	-10	-/D	-D	-D	-10	-/D	-2	-/G	-G	-G	-2	-/G	2	/G	G	G	2	/G
$\chi_{106}^{(117)}$	10	D	/D	-/D	-10	-D	-10	-D	-/D	/D	10	D	2	G	/G	-/G	-2	-G	-2	-G	-/G	/G	2	G
$\chi_{106}^{(118)}$	10	/D	D	-D	-10	-/D	-10	-/D	-D	D	10	/D	2	/G	G	-G	-2	-/G	-2	-/G	-G	G	2	/G
$\chi_{106}^{(119)}$	10	D	/D	-/D	-10	-D	-10	-D	-/D	/D	10	D	-2	-G	-/G	/G	2	G	2	G	/G	-/G	-2	-G
$\chi_{106}^{(120)}$	10	/D	D	-D	-10	-/D	-10	-/D	-D	D	10	/D	-2	-/G	-G	G	2	/G	2	/G	G	-G	-2	-/G
$\chi_{106}^{(121)}$	16	16	16	16	16	16	16	16	16	16	16	16	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(122)}$	16	16	16	-16	-16	-16	16	16	16	-16	-16	-16	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(123)}$	16	16	16	16	16	16	-16	-16	-16	-16	-16	-16	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(124)}$	16	16	16	-16	-16	-16	-16	-16	-16	16	16	16	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(125)}$	16	E	/E	/E	16	E	16	E	/E	/E	16	E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(126)}$	16	/E	E	E	16	/E	16	/E	E	E	16	/E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(127)}$	16	E	/E	-/E	-16	-E	16	E	/E	-/E	-16	-E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(128)}$	16	/E	E	-E	-16	-/E	16	/E	E	-E	-16	-/E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(129)}$	16	E	/E	/E	16	E	-16	-E	-/E	-/E	-16	-E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(130)}$	16	/E	E	E	16	/E	-16	-/E	-E	-E	-16	-/E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(131)}$	16	E	/E	-/E	-16	-E	-16	-E	-/E	/E	16	E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(132)}$	16	/E	E	-E	-16	-/E	-16	-/E	-E	E	16	/E	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{106}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(2)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(3)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(4)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(5)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(6)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(7)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(9)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(10)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(11)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(12)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(13)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(14)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(15)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(16)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(17)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(18)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(19)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(20)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(21)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(22)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(23)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(24)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(25)}$	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(26)}$	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(27)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(28)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(29)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(30)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(31)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(32)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(33)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(34)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(35)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(36)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(37)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(38)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(39)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(40)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(41)}$	2	G	/G	/G	2	G	2	G	/G	/G	2	G	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(42)}$	2	/G	G	G	2	/G	2	/G	G	G	2	/G	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(43)}$	2	G	/G	/G	2	G	2	G	/G	/G	2	G	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(44)}$	2	/G	G	G	2	/G	2	/G	G	G	2	/G	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(45)}$	2	G	/G	-/G	-2	-G	2	G	/G	-/G	-2	-G	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A

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$\chi_{106}^{(46)}$	2	/G	G	-G	-2	-/G	2	/G	G	-G	-2	-/G	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(47)}$	2	G	/G	-/G	-2	-G	2	G	/G	-/G	-2	-G	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(48)}$	2	/G	G	-G	-2	-/G	2	/G	G	-G	-2	-/G	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(49)}$	2	G	/G	/G	2	G	-2	-G	-/G	-/G	-2	-G	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(50)}$	2	/G	G	G	2	/G	-2	-/G	-G	-G	-2	-/G	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(51)}$	2	G	/G	/G	2	G	-2	-G	-/G	-/G	-2	-G	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(52)}$	2	/G	G	G	2	/G	-2	-/G	-G	-G	-2	-/G	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(53)}$	2	G	/G	-/G	-2	-G	-2	-G	-/G	/G	2	G	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(54)}$	2	/G	G	-G	-2	-/G	-2	-/G	-G	G	2	/G	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(55)}$	2	G	/G	-/G	-2	-G	-2	-G	-/G	/G	2	G	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(56)}$	2	/G	G	-G	-2	-/G	-2	-/G	-G	G	2	/G	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(57)}$	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(58)}$	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(59)}$	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(60)}$	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(61)}$	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(62)}$	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(63)}$	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(64)}$	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(65)}$	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(66)}$	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(67)}$	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(68)}$	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(69)}$	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(70)}$	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(71)}$	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(72)}$	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(73)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(74)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(75)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(76)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(77)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(78)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(79)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(80)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(81)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(85)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(86)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(87)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(88)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(89)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(90)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A

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$\chi_{106}^{(91)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(92)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(93)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(94)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(95)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(96)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(97)}$	1	1	1	1	1	1	1	1	1	1	1	1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{106}^{(98)}$	1	1	1	1	1	1	1	1	1	1	1	1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{106}^{(99)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2
$\chi_{106}^{(100)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2
$\chi_{106}^{(101)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2
$\chi_{106}^{(102)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2
$\chi_{106}^{(103)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{106}^{(104)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{106}^{(105)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-2	-G	-/G	-/G	-2	-G	-2	-G	-/G	-/G	-2	-G
$\chi_{106}^{(106)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-2	-/G	-G	-G	-2	-/G	-2	-/G	-G	-G	-2	-/G
$\chi_{106}^{(107)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-2	-G	-/G	-/G	-2	-G	-2	-G	-/G	-/G	-2	-G
$\chi_{106}^{(108)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-2	-/G	-G	-G	-2	-/G	-2	-/G	-G	-G	-2	-/G
$\chi_{106}^{(109)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-2	-G	-/G	/G	2	G	-2	-G	-/G	/G	2	G
$\chi_{106}^{(110)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-2	-/G	-G	G	2	/G	-2	-/G	-G	G	2	/G
$\chi_{106}^{(111)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-2	-G	-/G	/G	2	G	-2	-G	-/G	/G	2	G
$\chi_{106}^{(112)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-2	-/G	-G	G	2	/G	-2	-/G	-G	G	2	/G
$\chi_{106}^{(113)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-2	-G	-/G	-/G	-2	-G	2	G	/G	/G	2	G
$\chi_{106}^{(114)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-2	-/G	-G	-G	-2	-/G	2	/G	G	G	2	/G
$\chi_{106}^{(115)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-2	-G	-/G	-/G	-2	-G	2	G	/G	/G	2	G
$\chi_{106}^{(116)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-2	-/G	-G	-G	-2	-/G	2	/G	G	G	2	/G
$\chi_{106}^{(117)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-2	-G	-/G	/G	2	G	2	G	/G	-/G	-2	-G
$\chi_{106}^{(118)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-2	-/G	-G	G	2	/G	2	/G	G	-G	-2	-/G
$\chi_{106}^{(119)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-2	-G	-/G	/G	2	G	2	G	/G	-/G	-2	-G
$\chi_{106}^{(120)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-2	-/G	-G	G	2	/G	2	/G	G	-G	-2	-/G
$\chi_{106}^{(121)}$	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(122)}$	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(123)}$	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(124)}$	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(125)}$	-2	-G	-/G	-/G	-2	-G	-2	-G	-/G	-/G	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(126)}$	-2	-/G	-G	-G	-2	-/G	-2	-/G	-G	-G	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(127)}$	-2	-G	-/G	/G	2	G	-2	-G	-/G	/G	2	G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(128)}$	-2	-/G	-G	G	2	/G	-2	-/G	-G	G	2	/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(129)}$	-2	-G	-/G	-/G	-2	-G	2	G	/G	/G	2	G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(130)}$	-2	-/G	-G	-G	-2	-/G	2	/G	G	G	2	/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(131)}$	-2	-G	-/G	/G	2	G	2	G	/G	-/G	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(132)}$	-2	-/G	-G	G	2	/G	2	/G	G	-G	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{106}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(2)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1
$\chi_{106}^{(3)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
$\chi_{106}^{(4)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1
$\chi_{106}^{(5)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{106}^{(6)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1
$\chi_{106}^{(7)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1
$\chi_{106}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(9)}$	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1
$\chi_{106}^{(10)}$	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1
$\chi_{106}^{(11)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1
$\chi_{106}^{(12)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1
$\chi_{106}^{(13)}$	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1
$\chi_{106}^{(14)}$	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1
$\chi_{106}^{(15)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1
$\chi_{106}^{(16)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1
$\chi_{106}^{(17)}$	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1
$\chi_{106}^{(18)}$	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1
$\chi_{106}^{(19)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1
$\chi_{106}^{(20)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1
$\chi_{106}^{(21)}$	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1
$\chi_{106}^{(22)}$	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1
$\chi_{106}^{(23)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1
$\chi_{106}^{(24)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1
$\chi_{106}^{(25)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(26)}$	1	1	1	1	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(27)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(28)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(29)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(30)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(31)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(32)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(33)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(34)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(35)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{106}^{(36)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1
$\chi_{106}^{(37)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1
$\chi_{106}^{(38)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1
$\chi_{106}^{(39)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
$\chi_{106}^{(40)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1
$\chi_{106}^{(41)}$	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(42)}$	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(43)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(44)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(45)}$	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{106}^{(46)}$	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(47)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(48)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(49)}$	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(50)}$	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(51)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(52)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(53)}$	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(54)}$	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(55)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(56)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(57)}$	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1
$\chi_{106}^{(58)}$	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1
$\chi_{106}^{(59)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1
$\chi_{106}^{(60)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1
$\chi_{106}^{(61)}$	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1
$\chi_{106}^{(62)}$	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1
$\chi_{106}^{(63)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1
$\chi_{106}^{(64)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1
$\chi_{106}^{(65)}$	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1
$\chi_{106}^{(66)}$	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1
$\chi_{106}^{(67)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1
$\chi_{106}^{(68)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1
$\chi_{106}^{(69)}$	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1
$\chi_{106}^{(70)}$	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1
$\chi_{106}^{(71)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1
$\chi_{106}^{(72)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1
$\chi_{106}^{(73)}$	1	1	1	1	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(74)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(75)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(76)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(77)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(78)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(79)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(80)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(81)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(82)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(83)}$	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(84)}$	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(85)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(86)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(87)}$	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(88)}$	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(89)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(90)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{106}^{(91)}$	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(92)}$	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(93)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(94)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(95)}$	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(96)}$	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(97)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(98)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(99)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	-1	-1	-1	1	1
$\chi_{106}^{(100)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{106}^{(101)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1
$\chi_{106}^{(102)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1
$\chi_{106}^{(103)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1	-1
$\chi_{106}^{(104)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1
$\chi_{106}^{(105)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1
$\chi_{106}^{(106)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1
$\chi_{106}^{(107)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	1	A	/A	/A	1
$\chi_{106}^{(108)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	1	/A	A	A	1
$\chi_{106}^{(109)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1
$\chi_{106}^{(110)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1
$\chi_{106}^{(111)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1
$\chi_{106}^{(112)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1
$\chi_{106}^{(113)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1
$\chi_{106}^{(114)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1
$\chi_{106}^{(115)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1
$\chi_{106}^{(116)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1
$\chi_{106}^{(117)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1
$\chi_{106}^{(118)}$	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1
$\chi_{106}^{(119)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1
$\chi_{106}^{(120)}$	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1
$\chi_{106}^{(121)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(122)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(123)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(124)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(125)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(126)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(127)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(128)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(129)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(130)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(131)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(132)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{106}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(2)}$	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1
$\chi_{106}^{(3)}$	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{106}^{(4)}$	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{106}^{(5)}$	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{106}^{(6)}$	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{106}^{(7)}$	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{106}^{(8)}$	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(9)}$	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A
$\chi_{106}^{(10)}$	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A
$\chi_{106}^{(11)}$	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A
$\chi_{106}^{(12)}$	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A
$\chi_{106}^{(13)}$	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A
$\chi_{106}^{(14)}$	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A
$\chi_{106}^{(15)}$	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A
$\chi_{106}^{(16)}$	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A
$\chi_{106}^{(17)}$	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A
$\chi_{106}^{(18)}$	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A
$\chi_{106}^{(19)}$	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A
$\chi_{106}^{(20)}$	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A
$\chi_{106}^{(21)}$	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A
$\chi_{106}^{(22)}$	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A
$\chi_{106}^{(23)}$	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A
$\chi_{106}^{(24)}$	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A
$\chi_{106}^{(25)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(26)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(27)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{106}^{(28)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{106}^{(29)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{106}^{(30)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{106}^{(31)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{106}^{(32)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1
$\chi_{106}^{(33)}$	1	.	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
$\chi_{106}^{(34)}$	-1	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	3	3	3	3	3	3	3
$\chi_{106}^{(35)}$	-1	.	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	3	3	3	-3	-3	-3	3
$\chi_{106}^{(36)}$	1	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	-3	-3	-3	3	3	3	-3
$\chi_{106}^{(37)}$	-1	.	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	-3	-3	-3	3	3	3	3
$\chi_{106}^{(38)}$	1	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	3	3	3	-3	-3	-3	-3
$\chi_{106}^{(39)}$	1	.	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	3	3	3	3	3	3	-3
$\chi_{106}^{(40)}$	-1	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	-3	-3	-3	-3	-3	-3	3
$\chi_{106}^{(41)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	1	A	/A	/A
$\chi_{106}^{(42)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	1	/A	A	A
$\chi_{106}^{(43)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A
$\chi_{106}^{(44)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A
$\chi_{106}^{(45)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	1	A	/A	-/A

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$\chi_{106}^{(46)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	1	/A	A	-A
$\chi_{106}^{(47)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A
$\chi_{106}^{(48)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A
$\chi_{106}^{(49)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A
$\chi_{106}^{(50)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A
$\chi_{106}^{(51)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A
$\chi_{106}^{(52)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A
$\chi_{106}^{(53)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A
$\chi_{106}^{(54)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A
$\chi_{106}^{(55)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A
$\chi_{106}^{(56)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A
$\chi_{106}^{(57)}$	A	.	.	.	.	.	.	.	.	.	.	.	.	-3	F	/F	/F	-3	F	-3	F	/F	/F
$\chi_{106}^{(58)}$	/A	.	.	.	.	.	.	.	.	.	.	.	.	-3	/F	F	F	-3	/F	-3	/F	F	F
$\chi_{106}^{(59)}$	-A	.	.	.	.	.	.	.	.	.	.	.	.	3	-F	-/F	-/F	3	-F	3	-F	-/F	-/F
$\chi_{106}^{(60)}$	-/A	.	.	.	.	.	.	.	.	.	.	.	.	3	-/F	-F	-F	3	-/F	3	-/F	-F	-F
$\chi_{106}^{(61)}$	-A	.	.	.	.	.	.	.	.	.	.	.	.	-3	F	/F	-/F	3	-F	-3	F	/F	-/F
$\chi_{106}^{(62)}$	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-3	/F	F	-F	3	-/F	-3	/F	F	-F
$\chi_{106}^{(63)}$	A	.	.	.	.	.	.	.	.	.	.	.	.	3	-F	-/F	/F	-3	F	3	-F	-/F	/F
$\chi_{106}^{(64)}$	/A	.	.	.	.	.	.	.	.	.	.	.	.	3	-/F	-F	F	-3	/F	3	-/F	-F	F
$\chi_{106}^{(65)}$	-A	.	.	.	.	.	.	.	.	.	.	.	.	-3	F	/F	/F	-3	F	3	-F	-/F	-/F
$\chi_{106}^{(66)}$	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-3	/F	F	F	-3	/F	3	-/F	-F	-F
$\chi_{106}^{(67)}$	A	.	.	.	.	.	.	.	.	.	.	.	.	3	-F	-/F	-/F	3	-F	-3	F	/F	/F
$\chi_{106}^{(68)}$	/A	.	.	.	.	.	.	.	.	.	.	.	.	3	-/F	-F	-F	3	-/F	-3	/F	F	F
$\chi_{106}^{(69)}$	A	.	.	.	.	.	.	.	.	.	.	.	.	-3	F	/F	-/F	3	-F	3	-F	-/F	/F
$\chi_{106}^{(70)}$	/A	.	.	.	.	.	.	.	.	.	.	.	.	-3	/F	F	-F	3	-/F	3	-/F	-F	F
$\chi_{106}^{(71)}$	-A	.	.	.	.	.	.	.	.	.	.	.	.	3	-F	-/F	/F	-3	F	-3	F	/F	-/F
$\chi_{106}^{(72)}$	-/A	.	.	.	.	.	.	.	.	.	.	.	.	3	-/F	-F	F	-3	/F	-3	/F	F	-F
$\chi_{106}^{(73)}$	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
$\chi_{106}^{(74)}$	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	3	3	3	3	3	3
$\chi_{106}^{(75)}$	.	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-3	-3	-3	3	3	3	-3	-3	-3	3
$\chi_{106}^{(76)}$	.	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	3	3	3	-3	-3	-3	3	3	3	-3
$\chi_{106}^{(77)}$	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3	3	3	3	3
$\chi_{106}^{(78)}$	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	3	3	3	3	3	3	-3	-3	-3	-3
$\chi_{106}^{(79)}$	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-3	-3	-3	3	3	3	3	3	3	-3
$\chi_{106}^{(80)}$	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	3	3	3	-3	-3	-3	-3	-3	-3	3
$\chi_{106}^{(81)}$	.	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-3	F	/F	/F	-3	F	-3	F	/F	/F
$\chi_{106}^{(82)}$	.	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-3	/F	F	F	-3	/F	-3	/F	F	F
$\chi_{106}^{(83)}$	.	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	3	-F	-/F	-/F	3	-F	3	-F	-/F	-/F
$\chi_{106}^{(84)}$	.	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	3	-/F	-F	-F	3	-/F	3	-/F	-F	-F
$\chi_{106}^{(85)}$	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-3	F	/F	-/F	3	-F	-3	F	/F	-/F
$\chi_{106}^{(86)}$	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-3	/F	F	-F	3	-/F	-3	/F	F	-F
$\chi_{106}^{(87)}$	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	3	-F	-/F	/F	-3	F	3	-F	-/F	/F
$\chi_{106}^{(88)}$	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	3	-/F	-F	F	-3	/F	3	-/F	-F	F
$\chi_{106}^{(89)}$	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-3	F	/F	/F	-3	F	3	-F	-/F	-/F
$\chi_{106}^{(90)}$	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-3	/F	F	F	-3	/F	3	-/F	-F	-F

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$\chi_{106}^{(91)}$	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	3	-F	-/F	-/F	3	-F	-3	F	/F	/F
$\chi_{106}^{(92)}$	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	3	-/F	-F	-F	3	-/F	-3	/F	F	F
$\chi_{106}^{(93)}$	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-3	F	/F	-/F	3	-F	3	-F	-/F	/F
$\chi_{106}^{(94)}$	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-3	/F	F	-F	3	-/F	3	-/F	-F	F
$\chi_{106}^{(95)}$	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	3	-F	-/F	/F	-3	F	-3	F	/F	-/F
$\chi_{106}^{(96)}$	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	3	-/F	-F	F	-3	/F	-3	/F	F	-F
$\chi_{106}^{(97)}$	-1	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{106}^{(98)}$	1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2
$\chi_{106}^{(99)}$	1	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	-2	-2	-2	2
$\chi_{106}^{(100)}$	-1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	2	2	2	-2
$\chi_{106}^{(101)}$	1	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	2	2	2	2
$\chi_{106}^{(102)}$	-1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	-2	-2	-2	-2
$\chi_{106}^{(103)}$	-1	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	2	2	2	-2
$\chi_{106}^{(104)}$	1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	-2	-2	-2	2
$\chi_{106}^{(105)}$	-A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-G	-/G	-/G	-2	-G	-2	-G	-/G	-/G
$\chi_{106}^{(106)}$	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/G	-G	-G	-2	-/G	-2	-/G	-G	-G
$\chi_{106}^{(107)}$	A	.	.	.	.	.	.	.	.	.	.	.	.	2	G	/G	/G	2	G	2	G	/G	/G
$\chi_{106}^{(108)}$	/A	.	.	.	.	.	.	.	.	.	.	.	.	2	/G	G	G	2	/G	2	/G	G	G
$\chi_{106}^{(109)}$	A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-G	-/G	/G	2	G	-2	-G	-/G	/G
$\chi_{106}^{(110)}$	/A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/G	-G	G	2	/G	-2	-/G	-G	G
$\chi_{106}^{(111)}$	-A	.	.	.	.	.	.	.	.	.	.	.	.	2	G	/G	-/G	-2	-G	2	G	/G	-/G
$\chi_{106}^{(112)}$	-/A	.	.	.	.	.	.	.	.	.	.	.	.	2	/G	G	-G	-2	-/G	2	/G	G	-G
$\chi_{106}^{(113)}$	A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-G	-/G	-/G	-2	-G	2	G	/G	/G
$\chi_{106}^{(114)}$	/A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/G	-G	-G	-2	-/G	2	/G	G	G
$\chi_{106}^{(115)}$	-A	.	.	.	.	.	.	.	.	.	.	.	.	2	G	/G	/G	2	G	-2	-G	-/G	-/G
$\chi_{106}^{(116)}$	-/A	.	.	.	.	.	.	.	.	.	.	.	.	2	/G	G	G	2	/G	-2	-/G	-G	-G
$\chi_{106}^{(117)}$	-A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-G	-/G	/G	2	G	2	G	/G	-/G
$\chi_{106}^{(118)}$	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/G	-G	G	2	/G	2	/G	G	-G
$\chi_{106}^{(119)}$	A	.	.	.	.	.	.	.	.	.	.	.	.	2	G	/G	-/G	-2	-G	-2	-G	-/G	/G
$\chi_{106}^{(120)}$	/A	.	.	.	.	.	.	.	.	.	.	.	.	2	/G	G	-G	-2	-/G	-2	-/G	-G	G
$\chi_{106}^{(121)}$	.	1	1	1	1	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(122)}$	.	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(123)}$	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(124)}$	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(125)}$	.	1	A	/A	/A	1	A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(126)}$	.	1	/A	A	A	1	/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(127)}$	.	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(128)}$	.	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(129)}$	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(130)}$	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(131)}$	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(132)}$	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.

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$\chi_{106}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(2)}$	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{106}^{(3)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{106}^{(4)}$	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{106}^{(5)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{106}^{(6)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{106}^{(7)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{106}^{(8)}$	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(9)}$	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A
$\chi_{106}^{(10)}$	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A
$\chi_{106}^{(11)}$	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A
$\chi_{106}^{(12)}$	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A
$\chi_{106}^{(13)}$	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A
$\chi_{106}^{(14)}$	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A
$\chi_{106}^{(15)}$	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A
$\chi_{106}^{(16)}$	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A
$\chi_{106}^{(17)}$	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A
$\chi_{106}^{(18)}$	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A
$\chi_{106}^{(19)}$	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A
$\chi_{106}^{(20)}$	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A
$\chi_{106}^{(21)}$	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A
$\chi_{106}^{(22)}$	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A
$\chi_{106}^{(23)}$	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A
$\chi_{106}^{(24)}$	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A
$\chi_{106}^{(25)}$	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(26)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(27)}$	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{106}^{(28)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{106}^{(29)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{106}^{(30)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{106}^{(31)}$	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1
$\chi_{106}^{(32)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1
$\chi_{106}^{(33)}$	-3	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	2	2	2	2	2	2	2	2	2
$\chi_{106}^{(34)}$	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	2	2	2	2	2	2	2	2	2
$\chi_{106}^{(35)}$	3	3	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	2	2	2	-2	-2	-2	2	2	2	-2
$\chi_{106}^{(36)}$	-3	-3	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	2	2	2	-2	-2	-2	2	2	2	-2
$\chi_{106}^{(37)}$	3	3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	2	2	2	2	2	2	-2	-2	-2	-2
$\chi_{106}^{(38)}$	-3	-3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	2	2	2	2	2	2	-2	-2	-2	-2
$\chi_{106}^{(39)}$	-3	-3	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	2	2	2	-2	-2	-2	-2	-2	-2	2
$\chi_{106}^{(40)}$	3	3	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	2	2	2	-2	-2	-2	-2	-2	-2	2
$\chi_{106}^{(41)}$	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A
$\chi_{106}^{(42)}$	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A
$\chi_{106}^{(43)}$	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A
$\chi_{106}^{(44)}$	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A
$\chi_{106}^{(45)}$	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A

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$\chi_{106}^{(46)}$	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A
$\chi_{106}^{(47)}$	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A
$\chi_{106}^{(48)}$	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A
$\chi_{106}^{(49)}$	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A
$\chi_{106}^{(50)}$	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A
$\chi_{106}^{(51)}$	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A
$\chi_{106}^{(52)}$	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A
$\chi_{106}^{(53)}$	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A
$\chi_{106}^{(54)}$	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A
$\chi_{106}^{(55)}$	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A
$\chi_{106}^{(56)}$	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A
$\chi_{106}^{(57)}$	-3	F	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	2	G	/G	/G	2	G	2	G	/G	/G
$\chi_{106}^{(58)}$	-3	/F	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	2	/G	G	G	2	/G	2	/G	G	G
$\chi_{106}^{(59)}$	3	-F	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	2	G	/G	/G	2	G	2	G	/G	/G
$\chi_{106}^{(60)}$	3	-/F	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	2	/G	G	G	2	/G	2	/G	G	G
$\chi_{106}^{(61)}$	3	-F	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	2	G	/G	-/G	-2	-G	2	G	/G	-/G
$\chi_{106}^{(62)}$	3	-/F	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	2	/G	G	-G	-2	-/G	2	/G	G	-G
$\chi_{106}^{(63)}$	-3	F	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	2	G	/G	-/G	-2	-G	2	G	/G	-/G
$\chi_{106}^{(64)}$	-3	/F	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	2	/G	G	-G	-2	-/G	2	/G	G	-G
$\chi_{106}^{(65)}$	3	-F	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	2	G	/G	/G	2	G	-2	-G	-/G	-/G
$\chi_{106}^{(66)}$	3	-/F	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	2	/G	G	G	2	/G	-2	-/G	-G	-G
$\chi_{106}^{(67)}$	-3	F	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	2	G	/G	/G	2	G	-2	-G	-/G	-/G
$\chi_{106}^{(68)}$	-3	/F	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	2	/G	G	G	2	/G	-2	-/G	-G	-G
$\chi_{106}^{(69)}$	-3	F	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	2	G	/G	-/G	-2	-G	-2	-G	-/G	/G
$\chi_{106}^{(70)}$	-3	/F	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	2	/G	G	-G	-2	-/G	-2	-/G	-G	G
$\chi_{106}^{(71)}$	3	-F	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	2	G	/G	-/G	-2	-G	-2	-G	-/G	/G
$\chi_{106}^{(72)}$	3	-/F	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	2	/G	G	-G	-2	-/G	-2	-/G	-G	G
$\chi_{106}^{(73)}$	-3	-3	1	1	1	1	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(74)}$	3	3	1	1	1	1	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(75)}$	3	3	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(76)}$	-3	-3	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(77)}$	3	3	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(78)}$	-3	-3	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(79)}$	-3	-3	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(80)}$	3	3	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(81)}$	-3	F	1	A	/A	/A	1	A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(82)}$	-3	/F	1	/A	A	A	1	/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(83)}$	3	-F	1	A	/A	/A	1	A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(84)}$	3	-/F	1	/A	A	A	1	/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(85)}$	3	-F	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(86)}$	3	-/F	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(87)}$	-3	F	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(88)}$	-3	/F	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(89)}$	3	-F	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(90)}$	3	-/F	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.

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$\chi_{106}^{(91)}$	-3	F	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(92)}$	-3	/F	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(93)}$	-3	F	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(94)}$	-3	/F	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(95)}$	3	-F	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(96)}$	3	-/F	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(97)}$	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(98)}$	2	2	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(99)}$	2	2	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{106}^{(100)}$	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{106}^{(101)}$	2	2	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{106}^{(102)}$	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{106}^{(103)}$	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{106}^{(104)}$	2	2	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{106}^{(105)}$	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	1	A	/A	/A
$\chi_{106}^{(106)}$	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	1	/A	A	A
$\chi_{106}^{(107)}$	2	G	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	1	A	/A	/A
$\chi_{106}^{(108)}$	2	/G	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	1	/A	A	A
$\chi_{106}^{(109)}$	2	G	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	1	A	/A	-/A
$\chi_{106}^{(110)}$	2	/G	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	1	/A	A	-A
$\chi_{106}^{(111)}$	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	1	A	/A	-/A
$\chi_{106}^{(112)}$	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	1	/A	A	-A
$\chi_{106}^{(113)}$	2	G	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A
$\chi_{106}^{(114)}$	2	/G	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A
$\chi_{106}^{(115)}$	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A
$\chi_{106}^{(116)}$	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A
$\chi_{106}^{(117)}$	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A
$\chi_{106}^{(118)}$	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A
$\chi_{106}^{(119)}$	2	G	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A
$\chi_{106}^{(120)}$	2	/G	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A
$\chi_{106}^{(121)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{106}^{(122)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	-2	-2	-2	2
$\chi_{106}^{(123)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	2	2	2	2
$\chi_{106}^{(124)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	2	2	2	-2
$\chi_{106}^{(125)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-G	-/G	-/G	-2	-G	-2	-G	-/G	-/G
$\chi_{106}^{(126)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/G	-G	-G	-2	-/G	-2	-/G	-G	-G
$\chi_{106}^{(127)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-G	-/G	/G	2	G	-2	-G	-/G	/G
$\chi_{106}^{(128)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/G	-G	G	2	/G	-2	-/G	-G	G
$\chi_{106}^{(129)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-G	-/G	-/G	-2	-G	2	G	/G	/G
$\chi_{106}^{(130)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/G	-G	-G	-2	-/G	2	/G	G	G
$\chi_{106}^{(131)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-G	-/G	/G	2	G	2	G	/G	-/G
$\chi_{106}^{(132)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-/G	-G	G	2	/G	2	/G	G	-G

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$\chi_{106}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(2)}$	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{106}^{(3)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(4)}$	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{106}^{(5)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(6)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{106}^{(7)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(8)}$	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(9)}$	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(10)}$	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(11)}$	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(12)}$	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(13)}$	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(14)}$	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(15)}$	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(16)}$	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(17)}$	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A
$\chi_{106}^{(18)}$	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A
$\chi_{106}^{(19)}$	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(20)}$	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(21)}$	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(22)}$	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(23)}$	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(24)}$	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(25)}$	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(26)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(27)}$	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(28)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{106}^{(29)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(30)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{106}^{(31)}$	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(32)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{106}^{(33)}$	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(34)}$	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(35)}$	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(36)}$	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(37)}$	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(38)}$	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(39)}$	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(40)}$	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(41)}$	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(42)}$	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(43)}$	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(44)}$	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(45)}$	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A

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$\chi_{106}^{(46)}$	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(47)}$	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(48)}$	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(49)}$	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(50)}$	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(51)}$	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A
$\chi_{106}^{(52)}$	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A
$\chi_{106}^{(53)}$	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(54)}$	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(55)}$	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(56)}$	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(57)}$	2	G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(58)}$	2	/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(59)}$	2	G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(60)}$	2	/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(61)}$	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(62)}$	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(63)}$	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(64)}$	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(65)}$	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(66)}$	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(67)}$	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(68)}$	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(69)}$	2	G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(70)}$	2	/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(71)}$	2	G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(72)}$	2	/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(73)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(74)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(75)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(76)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(77)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(78)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(79)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(80)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(81)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(85)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(86)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(87)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(88)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(89)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(90)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{106}^{(91)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(92)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(93)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(94)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(95)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(96)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(97)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{106}^{(98)}$	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(99)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{106}^{(100)}$	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{106}^{(101)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{106}^{(102)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{106}^{(103)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{106}^{(104)}$	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{106}^{(105)}$	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{106}^{(106)}$	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{106}^{(107)}$	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(108)}$	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(109)}$	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(110)}$	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(111)}$	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(112)}$	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(113)}$	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{106}^{(114)}$	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{106}^{(115)}$	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A
$\chi_{106}^{(116)}$	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A
$\chi_{106}^{(117)}$	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{106}^{(118)}$	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{106}^{(119)}$	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{106}^{(120)}$	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{106}^{(121)}$	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(122)}$	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(123)}$	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(124)}$	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(125)}$	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(126)}$	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(127)}$	2	G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(128)}$	2	/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(129)}$	2	G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(130)}$	2	/G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(131)}$	-2	-G	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{106}^{(132)}$	-2	-/G	.	.	.	.	.	.	.	.	.	.	.	.

where A = E(3)^2 = (-1-ER(-3))/2 = -1-b3, B = 5*E(3)^2 = (-5-5*ER(-3))/2 = -5-5b3, C = 9*E(3)^2 = (-9-9*ER(-3))/2 = -9-9b3, D = 10*E(3)^2 = -5-5*ER(-3) = -5-5i3, E = 16*E(3)^2 = -8-8*ER(-3) = -8-8i3, F = -3*E(3)^2 = (3+3*ER(-3))/2 = 3+3b3, G = 2*E(3)^2 = -1-ER(-3) = -1-i3.

The generators of G^{s107} are:

$$\begin{pmatrix} 0 & 1 & 0 & -2 & 2 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 & 0 & -1 & 2 \\ 0 & 1 & 0 & -3 & 3 & 0 & -2 & 3 \\ -1 & 1 & 0 & -4 & 5 & -1 & -2 & 4 \\ -1 & 0 & 0 & -3 & 4 & 0 & -2 & 3 \\ 0 & 0 & -1 & -2 & 3 & 0 & -1 & 2 \\ 0 & 0 & -1 & -1 & 2 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 1 & -1 & 2 \\ 1 & -1 & -1 & 2 & -3 & 2 & -1 & 2 \\ 1 & -1 & -1 & 3 & -4 & 2 & -2 & 3 \\ 1 & -2 & -2 & 5 & -6 & 3 & -2 & 4 \\ 1 & -1 & -2 & 4 & -5 & 2 & -1 & 3 \\ 1 & 0 & -2 & 3 & -4 & 2 & -1 & 2 \\ 1 & 0 & -2 & 2 & -2 & 1 & -1 & 2 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s107} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 1 & -2 & 1 \\ -2 & -1 & 1 & 1 & -1 & 2 & -3 & 2 \\ -2 & -2 & 0 & 2 & -1 & 3 & -4 & 2 \\ -3 & -2 & 1 & 2 & -2 & 5 & -6 & 3 \\ -2 & -2 & 1 & 1 & -1 & 4 & -5 & 3 \\ -1 & -2 & 1 & 1 & -1 & 3 & -4 & 2 \\ 0 & -1 & 0 & 1 & -1 & 2 & -3 & 2 \\ 0 & -1 & 0 & 1 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & -1 & 2 & 0 & -1 \\ -1 & -2 & 1 & 1 & -2 & 2 & 1 & -2 \\ -1 & -2 & 2 & 0 & -2 & 3 & 1 & -3 \\ -2 & -4 & 3 & 1 & -3 & 4 & 1 & -4 \\ -1 & -4 & 2 & 1 & -2 & 3 & 1 & -3 \\ -1 & -3 & 1 & 1 & -1 & 2 & 1 & -3 \\ -1 & -2 & 1 & 1 & -1 & 1 & 1 & -2 \\ 0 & -1 & 0 & 1 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & 0 & -1 & 1 & 1 \\ -2 & 0 & 1 & 0 & 0 & -1 & 1 & 2 \\ -2 & 1 & 1 & 0 & -1 & -1 & 2 & 2 \\ -3 & 1 & 2 & 0 & -1 & -2 & 2 & 4 \\ -3 & 1 & 2 & 0 & -1 & -2 & 2 & 3 \\ -2 & 0 & 1 & 1 & -1 & -2 & 2 & 2 \\ -1 & 0 & 1 & 0 & 0 & -2 & 2 & 1 \\ 0 & 0 & 0 & 0 & 0 & -1 & 1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 2 & -2 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 & 0 & 1 & -2 \\ 0 & -1 & 0 & 3 & -3 & 0 & 2 & -3 \\ 1 & -1 & 0 & 4 & -5 & 1 & 2 & -4 \\ 1 & 0 & 0 & 3 & -4 & 0 & 2 & -3 \\ 0 & 0 & 1 & 2 & -3 & 0 & 1 & -2 \\ 0 & 0 & 1 & 1 & -2 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & -1 & 1 & -1 & 1 & 1 \\ 1 & -1 & 1 & -1 & 0 & -1 & 2 & 1 \\ 1 & -2 & 1 & -1 & 1 & -2 & 3 & 1 \\ 2 & -2 & 1 & -2 & 1 & -2 & 4 & 2 \\ 2 & -2 & 1 & -2 & 1 & -1 & 3 & 1 \\ 2 & -1 & 1 & -2 & 1 & -1 & 2 & 1 \\ 1 & 0 & 1 & -2 & 1 & -1 & 2 & 0 \\ 1 & 0 & 0 & -1 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -1 & 1 & -2 \\ -1 & 1 & 1 & -2 & 3 & -2 & 1 & -2 \\ -1 & 1 & 1 & -3 & 4 & -2 & 2 & -3 \\ -1 & 2 & 2 & -5 & 6 & -3 & 2 & -4 \\ -1 & 1 & 2 & -4 & 5 & -2 & 1 & -3 \\ -1 & 0 & 2 & -3 & 4 & -2 & 1 & -2 \\ -1 & 0 & 2 & -2 & 2 & -1 & 1 & -2 \\ -1 & 0 & 1 & -1 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 1 & -1 & 2 \\ 1 & -1 & -1 & 2 & -3 & 2 & -1 & 2 \\ 1 & -1 & -1 & 3 & -4 & 2 & -2 & 3 \\ 1 & -2 & -2 & 5 & -6 & 3 & -2 & 4 \\ 1 & -1 & -2 & 4 & -5 & 2 & -1 & 3 \\ 1 & 0 & -2 & 3 & -4 & 2 & -1 & 2 \\ 1 & 0 & -2 & 2 & -2 & 1 & -1 & 2 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & 1 & -1 & 1 & -1 & -1 \\ -1 & 1 & -1 & 1 & 0 & 1 & -2 & -1 \\ -1 & 2 & -1 & 1 & -1 & 2 & -3 & -1 \\ -2 & 2 & -1 & 2 & -1 & 2 & -4 & -2 \\ -2 & 2 & -1 & 2 & -1 & 1 & -3 & -1 \\ -2 & 1 & -1 & 2 & -1 & 1 & -2 & -1 \\ -1 & 0 & -1 & 2 & -1 & 1 & -2 & 0 \\ -1 & 0 & 0 & 1 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -2 & 2 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 & 0 & -1 & 2 \\ 0 & 1 & 0 & -3 & 3 & 0 & -2 & 3 \\ -1 & 1 & 0 & -4 & 5 & -1 & -2 & 4 \\ -1 & 0 & 0 & -3 & 4 & 0 & -2 & 3 \\ 0 & 0 & -1 & -2 & 3 & 0 & -1 & 2 \\ 0 & 0 & -1 & -1 & 2 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 0 & 1 & -1 & -1 \\ 2 & 0 & -1 & 0 & 0 & 1 & -1 & -2 \\ 2 & -1 & -1 & 0 & 1 & 1 & -2 & -2 \\ 3 & -1 & -2 & 0 & 1 & 2 & -2 & -4 \\ 3 & -1 & -2 & 0 & 1 & 2 & -2 & -3 \\ 2 & 0 & -1 & -1 & 1 & 2 & -2 & -2 \\ 1 & 0 & -1 & 0 & 0 & 2 & -2 & -1 \\ 0 & 0 & 0 & 0 & 0 & 1 & -1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 1 & 2 & -1 & 0 & 0 & 0 & -1 \\ -3 & 1 & 3 & -2 & 0 & 1 & 0 & -1 \\ -4 & 1 & 4 & -2 & 0 & 0 & 1 & -2 \\ -6 & 2 & 5 & -3 & 0 & 1 & 1 & -3 \\ -5 & 2 & 4 & -2 & -1 & 1 & 1 & -2 \\ -3 & 2 & 3 & -2 & -1 & 1 & 1 & -2 \\ -2 & 1 & 2 & -1 & -1 & 1 & 1 & -2 \\ -1 & 0 & 1 & 0 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 1 & -2 & 0 & 1 \\ 1 & 2 & -1 & -1 & 2 & -2 & -1 & 2 \\ 1 & 2 & -2 & 0 & 2 & -3 & -1 & 3 \\ 2 & 4 & -3 & -1 & 3 & -4 & -1 & 4 \\ 1 & 4 & -2 & -1 & 2 & -3 & -1 & 3 \\ 1 & 3 & -1 & -1 & 1 & -2 & -1 & 3 \\ 1 & 2 & -1 & -1 & 1 & -1 & -1 & 2 \\ 0 & 1 & 0 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 0 & -1 & 2 & -1 \\ 2 & 1 & -1 & -1 & 1 & -2 & 3 & -2 \\ 2 & 2 & 0 & -2 & 1 & -3 & 4 & -2 \\ 3 & 2 & -1 & -2 & 2 & -5 & 6 & -3 \\ 2 & 2 & -1 & -1 & 1 & -4 & 5 & -3 \\ 1 & 2 & -1 & -1 & 1 & -3 & 4 & -2 \\ 0 & 1 & 0 & -1 & 1 & -2 & 3 & -2 \\ 0 & 1 & 0 & -1 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 2 & -1 & -2 & 1 & 0 & 0 & 0 & 1 \\ 3 & -1 & -3 & 2 & 0 & -1 & 0 & 1 \\ 4 & -1 & -4 & 2 & 0 & 0 & -1 & 2 \\ 6 & -2 & -5 & 3 & 0 & -1 & -1 & 3 \\ 5 & -2 & -4 & 2 & 1 & -1 & -1 & 2 \\ 3 & -2 & -3 & 2 & 1 & -1 & -1 & 2 \\ 2 & -1 & -2 & 1 & 1 & -1 & -1 & 2 \\ 1 & 0 & -1 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}.$$

The character table of $G^{s_{107}}$:

	10															
$\chi_{107}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{107}^{(2)}$	1	1	1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1
$\chi_{107}^{(3)}$	1	-1	1	-1	1	1	1	1	-1	-1	-1	-1	1	-1	1	-1
$\chi_{107}^{(4)}$	1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	1	-1	-1
$\chi_{107}^{(5)}$	1	A	B	1	-/A	-A	-B	-1	-1	-B	-A	-/A	/A	B	A	/A
$\chi_{107}^{(6)}$	1	-/A	-B	1	A	/A	B	-1	-1	B	/A	A	-A	-B	-/A	-A
$\chi_{107}^{(7)}$	1	/A	-B	1	-A	-/A	B	-1	-1	B	-/A	-A	A	-B	/A	A
$\chi_{107}^{(8)}$	1	-A	B	1	/A	A	-B	-1	-1	-B	A	/A	-/A	B	-A	-/A
$\chi_{107}^{(9)}$	1	-A	B	-1	-/A	-A	-B	-1	1	B	A	/A	/A	-B	A	-/A
$\chi_{107}^{(10)}$	1	/A	-B	-1	A	/A	B	-1	1	-B	-/A	-A	-A	B	-/A	A
$\chi_{107}^{(11)}$	1	-/A	-B	-1	-A	-/A	B	-1	1	-B	/A	A	A	B	/A	-A
$\chi_{107}^{(12)}$	1	A	B	-1	/A	A	-B	-1	1	B	-A	-/A	-/A	-B	-A	/A
$\chi_{107}^{(13)}$	1	B	-1	-1	B	-B	-1	1	-1	1	B	-B	B	1	-B	-B
$\chi_{107}^{(14)}$	1	-B	-1	-1	-B	B	-1	1	-1	1	-B	B	-B	1	B	B
$\chi_{107}^{(15)}$	1	-B	-1	1	B	-B	-1	1	1	-1	-B	B	B	-1	-B	B
$\chi_{107}^{(16)}$	1	B	-1	1	-B	B	-1	1	1	-1	B	-B	-B	-1	B	-B

where A = E(8)^3,B = -E(4) = -ER(-1) = -i.

The generators of $G^{s_{108}}$ are:

$$\begin{pmatrix} 0 & 1 & 0 & 0 & -1 & -1 & 2 & 0 \\ 0 & 2 & 0 & 0 & -1 & -2 & 3 & -1 \\ -1 & 2 & 1 & 0 & -2 & -2 & 4 & -1 \\ -1 & 3 & 0 & 1 & -3 & -3 & 6 & -2 \\ -1 & 2 & 0 & 1 & -2 & -3 & 5 & -2 \\ 0 & 1 & 0 & 1 & -2 & -2 & 4 & -2 \\ 0 & 0 & 0 & 1 & -1 & -2 & 3 & -1 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0,0 & 0 & 0 & 0 & \\ 1 & 0 & -1 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & -1 & 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & -1 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \\ 0 & 1 & 2 & -2 & 0 & 2 & -2 & 0 \\ 0 & 0 & 3 & -2 & 0 & 2 & -2 & 0 \\ 0 & 0 & 4 & -3 & 0 & 4 & -4 & 0 \\ 0 & 0 & 3 & -3 & 1 & 3 & -3 & 0 \\ 0 & 0 & 2 & -2 & 0 & 3 & -2 & 0 \\ 0 & 0 & 2 & -2 & 0 & 2 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 2 & -3 & 0 & 1 \\ 0 & -2 & 2 & 0 & 2 & -3 & 0 & 1 \\ 0 & -2 & 3 & -1 & 4 & -5 & 0 & 1 \\ 0 & -2 & 2 & 0 & 3 & -4 & 0 & 0 \\ 0 & -2 & 2 & 0 & 2 & -3 & 0 & 0 \\ -1 & -1 & 2 & 0 & 1 & -2 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & -2 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & -3 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & -4 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & -6 \\ 0 & 0 & 0 & 1 & 0 & -1 & 1 & -5 \\ 0 & 0 & 0 & 1 & -1 & 0 & 1 & -4 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{108}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 2 & -2 & 1 & 1 \\ 1 & -1 & 1 & -1 & 2 & -2 & 1 & 1 \\ 2 & -1 & 0 & -1 & 3 & -3 & 2 & 1 \\ 1 & -1 & 0 & -1 & 3 & -2 & 1 & 1 \\ 1 & -1 & 0 & -1 & 2 & -1 & 1 & 1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 1 & 1 & -1 & -1 & 2 \\ -1 & -2 & 1 & 1 & 1 & -1 & -1 & 2 \\ -1 & -3 & 0 & 2 & 2 & -2 & -1 & 3 \\ -1 & -2 & 0 & 1 & 2 & -1 & -1 & 2 \\ -1 & -2 & 0 & 1 & 1 & 0 & -1 & 2 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & -1 & -1 & 2 & 0 \\ 0 & 2 & 0 & 0 & -1 & -2 & 3 & -1 \\ -1 & 2 & 1 & 0 & -2 & -2 & 4 & -1 \\ -1 & 3 & 0 & 1 & -3 & -3 & 6 & -2 \\ -1 & 2 & 0 & 1 & -2 & -3 & 5 & -2 \\ 0 & 1 & 0 & 1 & -2 & -2 & 4 & -2 \\ 0 & 0 & 0 & 1 & -1 & -2 & 3 & -1 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & -1 & -1 & 1 & 1 \\ -1 & 0 & 0 & 1 & 0 & -3 & 2 & 1 \\ -2 & 0 & 1 & 1 & -1 & -3 & 3 & 1 \\ -2 & 0 & 0 & 2 & -1 & -5 & 5 & 1 \\ -2 & 0 & 0 & 2 & -1 & -4 & 4 & 0 \\ -1 & -1 & 0 & 2 & -1 & -3 & 3 & 0 \\ -1 & -1 & 0 & 2 & -1 & -2 & 2 & 0 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 0 & 1 & 0 \\ -2 & 1 & 0 & 2 & -2 & -1 & 1 & 0 \\ -3 & 1 & 1 & 2 & -3 & -1 & 2 & 0 \\ -4 & 1 & 0 & 4 & -4 & -2 & 3 & 0 \\ -3 & 1 & 0 & 3 & -3 & -2 & 3 & -1 \\ -2 & 0 & 0 & 3 & -3 & -1 & 2 & -1 \\ -1 & 0 & 0 & 2 & -2 & -1 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & -1 & 1 & 1 & -1 & -1 \\ 1 & 0 & 0 & -1 & 0 & 3 & -2 & -1 \\ 2 & 0 & -1 & -1 & 1 & 3 & -3 & -1 \\ 2 & 0 & 0 & -2 & 1 & 5 & -5 & -1 \\ 2 & 0 & 0 & -2 & 1 & 4 & -4 & 0 \\ 1 & 1 & 0 & -2 & 1 & 3 & -3 & 0 \\ 1 & 1 & 0 & -2 & 1 & 2 & -2 & 0 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & 0 & -1 & 0 \\ 2 & -1 & 0 & -2 & 2 & 1 & -1 & 0 \\ 3 & -1 & -1 & -2 & 3 & 1 & -2 & 0 \\ 4 & -1 & 0 & -4 & 4 & 2 & -3 & 0 \\ 3 & -1 & 0 & -3 & 3 & 2 & -3 & 1 \\ 2 & 0 & 0 & -3 & 3 & 1 & -2 & 1 \\ 1 & 0 & 0 & -2 & 2 & 1 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 1 & 1 & -2 & 0 \\ 0 & -2 & 0 & 0 & 1 & 2 & -3 & 1 \\ 1 & -2 & -1 & 0 & 2 & 2 & -4 & 1 \\ 1 & -3 & 0 & -1 & 3 & 3 & -6 & 2 \\ 1 & -2 & 0 & -1 & 2 & 3 & -5 & 2 \\ 0 & -1 & 0 & -1 & 2 & 2 & -4 & 2 \\ 0 & 0 & 0 & -1 & 1 & 2 & -3 & 1 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 0 & 1 & -1 \\ 1 & 1 & 0 & -1 & -1 & 1 & 1 & -2 \\ 1 & 2 & -1 & -1 & -1 & 1 & 1 & -2 \\ 1 & 3 & 0 & -2 & -2 & 2 & 1 & -3 \\ 1 & 2 & 0 & -1 & -2 & 1 & 1 & -2 \\ 1 & 2 & 0 & -1 & -1 & 0 & 1 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \\ -1 & 0 & 0 & 1 & -2 & 2 & -1 & -1 \\ -1 & 1 & -1 & 1 & -2 & 2 & -1 & -1 \\ -2 & 1 & 0 & 1 & -3 & 3 & -2 & -1 \\ -1 & 1 & 0 & 1 & -3 & 2 & -1 & -1 \\ -1 & 1 & 0 & 1 & -2 & 1 & -1 & -1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \\ 0 & 2 & 0 & -1 & 1 & 0 & -1 & 0 \\ 1 & 2 & -1 & -1 & 2 & 0 & -2 & 0 \\ 0 & 3 & 0 & -2 & 3 & 0 & -3 & 0 \\ 0 & 2 & 0 & -2 & 3 & 0 & -2 & 0 \\ 0 & 2 & 0 & -2 & 2 & 1 & -2 & 0 \\ 0 & 2 & 0 & -2 & 2 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 2 & -1 & -1 & 1 \\ 1 & 1 & 0 & -2 & 3 & -2 & 0 & 1 \\ 2 & 1 & -1 & -2 & 4 & -2 & -1 & 1 \\ 2 & 2 & 0 & -4 & 6 & -3 & -1 & 1 \\ 1 & 1 & 0 & -3 & 5 & -2 & -1 & 1 \\ 1 & 1 & 0 & -3 & 4 & -1 & -1 & 1 \\ 0 & 1 & 0 & -2 & 3 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 1 & 0 & -2 & 1 \\ -1 & 0 & 0 & 0 & 2 & -1 & -2 & 2 \\ 0 & 0 & -1 & 0 & 3 & -1 & -3 & 2 \\ -1 & 0 & 0 & -1 & 5 & -2 & -4 & 3 \\ -1 & 0 & 0 & -1 & 4 & -1 & -3 & 2 \\ -1 & 0 & 0 & -1 & 3 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 2 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 2 & 0 & -1 & 0 & -1 & 1 & 0 \\ 0 & 3 & 0 & -1 & 0 & -2 & 2 & -1 \\ 0 & 4 & -1 & -1 & 0 & -2 & 2 & -1 \\ -1 & 6 & 0 & -2 & 0 & -3 & 3 & -2 \\ -1 & 4 & 0 & -1 & 0 & -3 & 3 & -2 \\ 0 & 3 & 0 & -1 & 0 & -2 & 2 & -2 \\ 0 & 2 & 0 & -1 & 1 & -2 & 1 & -1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & 0 & -1 & 0 & 1 \\ -1 & 1 & 0 & 0 & 1 & -3 & 1 & 1 \\ -1 & 2 & -1 & 0 & 1 & -3 & 1 & 1 \\ -2 & 3 & 0 & -1 & 2 & -5 & 2 & 1 \\ -2 & 2 & 0 & 0 & 1 & -4 & 2 & 0 \\ -1 & 1 & 0 & 0 & 1 & -3 & 1 & 0 \\ -1 & 1 & 0 & 0 & 1 & -2 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 2 & 0 & 0 & -1 & 0 & 0 & 0 \\ -2 & 2 & 0 & 1 & -1 & -1 & 0 & 0 \\ -2 & 3 & -1 & 1 & -1 & -1 & 0 & 0 \\ -4 & 4 & 0 & 1 & -1 & -2 & 0 & 0 \\ -3 & 3 & 0 & 1 & -1 & -2 & 1 & -1 \\ -2 & 2 & 0 & 1 & -1 & -1 & 0 & -1 \\ -1 & 2 & 0 & 0 & 0 & -1 & 0 & -1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & -1 & 1 & 0 & 0 & -1 \\ -1 & 0 & 1 & -1 & 1 & 1 & 0 & -2 \\ -1 & 0 & 2 & -2 & 2 & 1 & -1 & -2 \\ -2 & -1 & 3 & -2 & 2 & 2 & -1 & -3 \\ -1 & -1 & 2 & -2 & 2 & 2 & -1 & -2 \\ -1 & 0 & 2 & -2 & 1 & 2 & -1 & -1 \\ -1 & 0 & 2 & -2 & 1 & 1 & 0 & -1 \\ -1 & 0 & 1 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 1 & -2 & 3 & -1 & 1 & -1 \\ 0 & -1 & 2 & -3 & 4 & -1 & 0 & -1 \\ 0 & -2 & 3 & -4 & 5 & -1 & 1 & -2 \\ 0 & -2 & 2 & -3 & 4 & 0 & 0 & -1 \\ 0 & -1 & 2 & -3 & 3 & 0 & 0 & 0 \\ -1 & -1 & 2 & -2 & 2 & 0 & 0 & 0 \\ -1 & 0 & 1 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & 0 & -1 & 0 \\ -2 & -2 & 1 & 0 & 2 & 0 & -1 & 0 \\ -2 & -2 & 2 & -1 & 3 & 0 & -2 & 0 \\ -3 & -4 & 3 & -1 & 4 & 0 & -2 & 0 \\ -2 & -3 & 2 & -1 & 3 & 1 & -2 & 0 \\ -2 & -2 & 2 & -1 & 2 & 1 & -2 & 1 \\ -2 & -1 & 2 & -1 & 1 & 1 & -1 & 0 \\ -1 & 0 & 1 & -1 & 1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & -1 & 2 & -1 \\ -1 & 1 & 1 & -1 & 0 & -1 & 3 & -3 \\ -2 & 2 & 2 & -2 & 0 & -1 & 3 & -3 \\ -3 & 2 & 3 & -2 & -1 & -1 & 5 & -5 \\ -2 & 1 & 2 & -1 & -1 & -1 & 4 & -4 \\ -1 & 1 & 2 & -1 & -1 & -1 & 3 & -3 \\ -1 & 0 & 2 & -1 & 0 & -1 & 2 & -2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \\ -2 & -1 & 1 & 0 & 1 & -2 & 2 & -1 \\ -3 & 0 & 2 & -1 & 1 & -2 & 2 & -1 \\ -4 & -1 & 3 & -1 & 1 & -3 & 4 & -2 \\ -3 & -1 & 2 & 0 & 0 & -2 & 3 & -2 \\ -2 & -1 & 2 & 0 & 0 & -2 & 2 & -1 \\ -2 & -1 & 2 & 0 & 0 & -1 & 1 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 1 & 0 & -1 & 0 & 1 & -1 \\ -3 & 0 & 1 & 1 & -1 & 0 & 1 & -2 \\ -4 & 1 & 2 & 0 & -1 & 0 & 1 & -2 \\ -6 & 0 & 3 & 1 & -2 & 0 & 2 & -3 \\ -4 & 0 & 2 & 1 & -2 & 0 & 2 & -3 \\ -3 & 0 & 2 & 1 & -2 & 0 & 1 & -2 \\ -2 & 0 & 2 & 0 & -1 & 0 & 1 & -2 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & -1 & 1 & -1 & 1 & -1 & 1 & 1 \\ 2 & -2 & 0 & 0 & 1 & -1 & 1 & 1 \\ 2 & -2 & 1 & -1 & 2 & -2 & 2 & 1 \\ 1 & -2 & 1 & -1 & 2 & -1 & 1 & 1 \\ 1 & -1 & 0 & -1 & 2 & -1 & 1 & 1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & -2 & 1 & 1 & 0 & 0 & -1 & 2 \\ 0 & -3 & 0 & 2 & 0 & 0 & -1 & 2 \\ -1 & -4 & 1 & 2 & 1 & -1 & -1 & 3 \\ -1 & -3 & 1 & 1 & 1 & 0 & -1 & 2 \\ -1 & -2 & 0 & 1 & 1 & 0 & -1 & 2 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & -1 & -1 & 2 & 0 \\ 0 & 1 & 1 & 0 & -2 & -1 & 3 & -1 \\ 0 & 1 & 0 & 1 & -3 & -1 & 4 & -1 \\ -1 & 2 & 1 & 1 & -4 & -2 & 6 & -2 \\ -1 & 1 & 1 & 1 & -3 & -2 & 5 & -2 \\ 0 & 1 & 0 & 1 & -2 & -2 & 4 & -2 \\ 0 & 0 & 0 & 1 & -1 & -2 & 3 & -1 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & -1 & -1 & 1 & 1 \\ -1 & -1 & 1 & 1 & -1 & -2 & 2 & 1 \\ -1 & -1 & 0 & 2 & -2 & -2 & 3 & 1 \\ -2 & -1 & 1 & 2 & -2 & -4 & 5 & 1 \\ -2 & -1 & 1 & 2 & -2 & -3 & 4 & 0 \\ -1 & -1 & 0 & 2 & -1 & -3 & 3 & 0 \\ -1 & -1 & 0 & 2 & -1 & -2 & 2 & 0 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 0 & 1 & 0 \\ -2 & 0 & 1 & 2 & -3 & 0 & 1 & 0 \\ -2 & 0 & 0 & 3 & -4 & 0 & 2 & 0 \\ -4 & 0 & 1 & 4 & -5 & -1 & 3 & 0 \\ -3 & 0 & 1 & 3 & -4 & -1 & 3 & -1 \\ -2 & 0 & 0 & 3 & -3 & -1 & 2 & -1 \\ -1 & 0 & 0 & 2 & -2 & -1 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & -1 & 1 & 1 & -1 & -1 \\ 1 & 1 & -1 & -1 & 1 & 2 & -2 & -1 \\ 1 & 1 & 0 & -2 & 2 & 2 & -3 & -1 \\ 2 & 1 & -1 & -2 & 2 & 4 & -5 & -1 \\ 2 & 1 & -1 & -2 & 2 & 3 & -4 & 0 \\ 1 & 1 & 0 & -2 & 1 & 3 & -3 & 0 \\ 1 & 1 & 0 & -2 & 1 & 2 & -2 & 0 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & 0 & -1 & 0 \\ 2 & 0 & -1 & -2 & 3 & 0 & -1 & 0 \\ 2 & 0 & 0 & -3 & 4 & 0 & -2 & 0 \\ 4 & 0 & -1 & -4 & 5 & 1 & -3 & 0 \\ 3 & 0 & -1 & -3 & 4 & 1 & -3 & 1 \\ 2 & 0 & 0 & -3 & 3 & 1 & -2 & 1 \\ 1 & 0 & 0 & -2 & 2 & 1 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 1 & 1 & -2 & 0 \\ 0 & -1 & -1 & 0 & 2 & 1 & -3 & 1 \\ 0 & -1 & 0 & -1 & 3 & 1 & -4 & 1 \\ 1 & -2 & -1 & -1 & 4 & 2 & -6 & 2 \\ 1 & -1 & -1 & -1 & 3 & 2 & -5 & 2 \\ 0 & -1 & 0 & -1 & 2 & 2 & -4 & 2 \\ 0 & 0 & 0 & -1 & 1 & 2 & -3 & 1 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 0 & 1 & -1 \\ 1 & 2 & -1 & -1 & 0 & 0 & 1 & -2 \\ 0 & 3 & 0 & -2 & 0 & 0 & 1 & -2 \\ 1 & 4 & -1 & -2 & -1 & 1 & 1 & -3 \\ 1 & 3 & -1 & -1 & -1 & 0 & 1 & -2 \\ 1 & 2 & 0 & -1 & -1 & 0 & 1 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \\ -1 & 1 & -1 & 1 & -1 & 1 & -1 & -1 \\ -2 & 2 & 0 & 0 & -1 & 1 & -1 & -1 \\ -2 & 2 & -1 & 1 & -2 & 2 & -2 & -1 \\ -1 & 2 & -1 & 1 & -2 & 1 & -1 & -1 \\ -1 & 1 & 0 & 1 & -2 & 1 & -1 & -1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & -1 & 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & -1 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 2 & -1 & -1 & 0 & 1 & -1 & 1 & 1 \\ 2 & -2 & 0 & 0 & 1 & -1 & 1 & 1 \\ 3 & -2 & -1 & 0 & 2 & -2 & 2 & 1 \\ 2 & -2 & -1 & 0 & 2 & -1 & 1 & 1 \\ 1 & -1 & 0 & -1 & 2 & -1 & 1 & 1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -1 & 1 \\ 0 & -2 & -1 & 2 & 0 & 0 & -1 & 2 \\ 0 & -3 & 0 & 2 & 0 & 0 & -1 & 2 \\ 0 & -4 & -1 & 3 & 1 & -1 & -1 & 3 \\ 0 & -3 & -1 & 2 & 1 & 0 & -1 & 2 \\ -1 & -2 & 0 & 1 & 1 & 0 & -1 & 2 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & -1 & -1 & 2 & 0 \\ 1 & 1 & -1 & 1 & -2 & -1 & 3 & -1 \\ 0 & 1 & 0 & 1 & -3 & -1 & 4 & -1 \\ 0 & 2 & -1 & 2 & -4 & -2 & 6 & -2 \\ 0 & 1 & -1 & 2 & -3 & -2 & 5 & -2 \\ 0 & 1 & 0 & 1 & -2 & -2 & 4 & -2 \\ 0 & 0 & 0 & 1 & -1 & -2 & 3 & -1 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & -1 & -1 & 1 & 1 \\ 0 & -1 & -1 & 2 & -1 & -2 & 2 & 1 \\ -1 & -1 & 0 & 2 & -2 & -2 & 3 & 1 \\ -1 & -1 & -1 & 3 & -2 & -4 & 5 & 1 \\ -1 & -1 & -1 & 3 & -2 & -3 & 4 & 0 \\ -1 & -1 & 0 & 2 & -1 & -3 & 3 & 0 \\ -1 & -1 & 0 & 2 & -1 & -2 & 2 & 0 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 0 & 1 & 0 \\ -1 & 0 & -1 & 3 & -3 & 0 & 1 & 0 \\ -2 & 0 & 0 & 3 & -4 & 0 & 2 & 0 \\ -3 & 0 & -1 & 5 & -5 & -1 & 3 & 0 \\ -2 & 0 & -1 & 4 & -4 & -1 & 3 & -1 \\ -2 & 0 & 0 & 3 & -3 & -1 & 2 & -1 \\ -1 & 0 & 0 & 2 & -2 & -1 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & -1 & 1 & 1 & -1 & -1 \\ 0 & 1 & 1 & -2 & 1 & 2 & -2 & -1 \\ 1 & 1 & 0 & -2 & 2 & 2 & -3 & -1 \\ 1 & 1 & 1 & -3 & 2 & 4 & -5 & -1 \\ 1 & 1 & 1 & -3 & 2 & 3 & -4 & 0 \\ 1 & 1 & 0 & -2 & 1 & 3 & -3 & 0 \\ 1 & 1 & 0 & -2 & 1 & 2 & -2 & 0 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & 0 & -1 & 0 \\ 1 & 0 & 1 & -3 & 3 & 0 & -1 & 0 \\ 2 & 0 & 0 & -3 & 4 & 0 & -2 & 0 \\ 3 & 0 & 1 & -5 & 5 & 1 & -3 & 0 \\ 2 & 0 & 1 & -4 & 4 & 1 & -3 & 1 \\ 2 & 0 & 0 & -3 & 3 & 1 & -2 & 1 \\ 1 & 0 & 0 & -2 & 2 & 1 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 1 & 1 & -2 & 0 \\ -1 & -1 & 1 & -1 & 2 & 1 & -3 & 1 \\ 0 & -1 & 0 & -1 & 3 & 1 & -4 & 1 \\ 0 & -2 & 1 & -2 & 4 & 2 & -6 & 2 \\ 0 & -1 & 1 & -2 & 3 & 2 & -5 & 2 \\ 0 & -1 & 0 & -1 & 2 & 2 & -4 & 2 \\ 0 & 0 & 0 & -1 & 1 & 2 & -3 & 1 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 0 & 1 & -1 \\ 0 & 2 & 1 & -2 & 0 & 0 & 1 & -2 \\ 0 & 3 & 0 & -2 & 0 & 0 & 1 & -2 \\ 0 & 4 & 1 & -3 & -1 & 1 & 1 & -3 \\ 0 & 3 & 1 & -2 & -1 & 0 & 1 & -2 \\ 1 & 2 & 0 & -1 & -1 & 0 & 1 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 1 & -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & 1 & -1 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \\ -2 & 1 & 1 & 0 & -1 & 1 & -1 & -1 \\ -2 & 2 & 0 & 0 & -1 & 1 & -1 & -1 \\ -3 & 2 & 1 & 0 & -2 & 2 & -2 & -1 \\ -2 & 2 & 1 & 0 & -2 & 1 & -1 & -1 \\ -1 & 1 & 0 & 1 & -2 & 1 & -1 & -1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \\ 0 & 2 & 1 & -2 & 1 & 1 & -2 & 0 \\ 1 & 2 & 0 & -2 & 2 & 1 & -3 & 0 \\ 0 & 3 & 1 & -3 & 3 & 1 & -4 & 0 \\ 0 & 2 & 1 & -3 & 3 & 1 & -3 & 0 \\ 0 & 2 & 0 & -2 & 2 & 1 & -2 & 0 \\ 0 & 2 & 0 & -2 & 2 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 2 & -1 & -1 & 1 \\ 1 & 1 & 1 & -3 & 3 & -1 & -1 & 1 \\ 2 & 1 & 0 & -3 & 4 & -1 & -2 & 1 \\ 2 & 2 & 1 & -5 & 6 & -2 & -2 & 1 \\ 1 & 1 & 1 & -4 & 5 & -1 & -2 & 1 \\ 1 & 1 & 0 & -3 & 4 & -1 & -1 & 1 \\ 0 & 1 & 0 & -2 & 3 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 1 & 0 & -2 & 1 \\ -1 & 0 & 1 & -1 & 2 & 0 & -3 & 2 \\ 0 & 0 & 0 & -1 & 3 & 0 & -4 & 2 \\ -1 & 0 & 1 & -2 & 5 & -1 & -5 & 3 \\ -1 & 0 & 1 & -2 & 4 & 0 & -4 & 2 \\ -1 & 0 & 0 & -1 & 3 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 2 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 2 & 0 & -1 & 0 & -1 & 1 & 0 \\ 0 & 3 & 1 & -2 & 0 & -1 & 1 & -1 \\ 0 & 4 & 0 & -2 & 0 & -1 & 1 & -1 \\ -1 & 6 & 1 & -3 & 0 & -2 & 2 & -2 \\ -1 & 4 & 1 & -2 & 0 & -2 & 2 & -2 \\ 0 & 3 & 0 & -1 & 0 & -2 & 2 & -2 \\ 0 & 2 & 0 & -1 & 1 & -2 & 1 & -1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & 0 & -1 & 0 & 1 \\ -1 & 1 & 1 & -1 & 1 & -2 & 0 & 1 \\ -1 & 2 & 0 & -1 & 1 & -2 & 0 & 1 \\ -2 & 3 & 1 & -2 & 2 & -4 & 1 & 1 \\ -2 & 2 & 1 & -1 & 1 & -3 & 1 & 0 \\ -1 & 1 & 0 & 0 & 1 & -3 & 1 & 0 \\ -1 & 1 & 0 & 0 & 1 & -2 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 2 & 0 & 0 & -1 & 0 & 0 & 0 \\ -2 & 2 & 1 & 0 & -1 & 0 & -1 & 0 \\ -2 & 3 & 0 & 0 & -1 & 0 & -1 & 0 \\ -4 & 4 & 1 & 0 & -1 & -1 & -1 & 0 \\ -3 & 3 & 1 & 0 & -1 & -1 & 0 & -1 \\ -2 & 2 & 0 & 1 & -1 & -1 & 0 & -1 \\ -1 & 2 & 0 & 0 & 0 & -1 & 0 & -1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & 1 & -2 \\ 1 & 0 & -2 & 2 & -1 & 0 & 1 & -3 \\ 1 & -1 & -2 & 3 & -2 & 0 & 2 & -4 \\ 1 & -1 & -3 & 4 & -2 & 0 & 2 & -6 \\ 1 & -1 & -2 & 3 & -1 & -1 & 2 & -5 \\ 1 & -1 & -1 & 2 & -1 & 0 & 1 & -4 \\ 1 & -1 & -1 & 1 & 0 & 0 & 1 & -3 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 1 & -1 \\ 2 & -1 & -2 & 1 & 1 & -2 & 2 & -2 \\ 2 & -2 & -2 & 2 & 0 & -2 & 3 & -3 \\ 3 & -2 & -3 & 2 & 1 & -3 & 4 & -5 \\ 2 & -2 & -2 & 2 & 1 & -3 & 3 & -4 \\ 2 & -2 & -1 & 1 & 1 & -2 & 2 & -3 \\ 1 & -2 & -1 & 1 & 1 & -1 & 1 & -2 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 2 & -1 & 0 & 0 & -1 \\ 0 & -2 & -2 & 3 & 0 & -1 & 0 & -1 \\ 0 & -3 & -2 & 4 & -1 & -1 & 1 & -2 \\ 0 & -4 & -3 & 5 & 0 & -2 & 1 & -3 \\ 0 & -3 & -2 & 4 & 0 & -2 & 1 & -3 \\ 0 & -3 & -1 & 3 & 0 & -1 & 0 & -2 \\ 0 & -2 & -1 & 2 & 0 & 0 & 0 & -2 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -1 & -1 & 1 & 1 & 0 & 0 \\ 1 & 1 & -2 & -1 & 1 & 1 & 1 & -1 \\ 1 & 0 & -2 & -1 & 1 & 2 & 1 & -1 \\ 1 & 1 & -3 & -2 & 2 & 3 & 1 & -2 \\ 0 & 1 & -2 & -2 & 2 & 2 & 1 & -1 \\ 0 & 1 & -1 & -2 & 1 & 2 & 1 & -1 \\ 0 & 0 & -1 & -1 & 1 & 1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 0 & 1 & 1 & -1 & 1 \\ 0 & -1 & -2 & 0 & 2 & 0 & 0 & 1 \\ 0 & -2 & -2 & 0 & 2 & 1 & 0 & 1 \\ 0 & -2 & -3 & -1 & 4 & 1 & 0 & 1 \\ -1 & -1 & -2 & -1 & 3 & 1 & 0 & 1 \\ -1 & -1 & -1 & -1 & 2 & 1 & 0 & 1 \\ -1 & -1 & -1 & 0 & 1 & 1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 2 & -1 & 0 \\ -1 & 0 & -2 & 1 & 0 & 2 & -1 & 0 \\ -1 & -1 & -2 & 1 & 0 & 3 & -1 & 0 \\ -2 & -1 & -3 & 1 & 1 & 4 & -2 & 0 \\ -2 & 0 & -2 & 0 & 1 & 3 & -1 & 0 \\ -2 & 0 & -1 & 0 & 0 & 3 & -1 & 0 \\ -1 & 0 & -1 & 0 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 1 & 0 & -1 & -1 & 1 & -1 \\ 0 & 1 & 2 & 0 & -2 & 0 & 0 & -1 \\ 0 & 2 & 2 & 0 & -2 & -1 & 0 & -1 \\ 0 & 2 & 3 & 1 & -4 & -1 & 0 & -1 \\ 1 & 1 & 2 & 1 & -3 & -1 & 0 & -1 \\ 1 & 1 & 1 & 1 & -2 & -1 & 0 & -1 \\ 1 & 1 & 1 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & 0 & -2 & 1 & 0 \\ 1 & 0 & 2 & -1 & 0 & -2 & 1 & 0 \\ 1 & 1 & 2 & -1 & 0 & -3 & 1 & 0 \\ 2 & 1 & 3 & -1 & -1 & -4 & 2 & 0 \\ 2 & 0 & 2 & 0 & -1 & -3 & 1 & 0 \\ 2 & 0 & 1 & 0 & 0 & -3 & 1 & 0 \\ 1 & 0 & 1 & 0 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 1 & -1 & -1 & 0 & 0 \\ -1 & -1 & 2 & 1 & -1 & -1 & -1 & 1 \\ -1 & 0 & 2 & 1 & -1 & -2 & -1 & 1 \\ -1 & -1 & 3 & 2 & -2 & -3 & -1 & 2 \\ 0 & -1 & 2 & 2 & -2 & -2 & -1 & 1 \\ 0 & -1 & 1 & 2 & -1 & -2 & -1 & 1 \\ 0 & 0 & 1 & 1 & -1 & -1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 1 & -2 & 1 & 0 & 0 & 1 \\ 0 & 2 & 2 & -3 & 0 & 1 & 0 & 1 \\ 0 & 3 & 2 & -4 & 1 & 1 & -1 & 2 \\ 0 & 4 & 3 & -5 & 0 & 2 & -1 & 3 \\ 0 & 3 & 2 & -4 & 0 & 2 & -1 & 3 \\ 0 & 3 & 1 & -3 & 0 & 1 & 0 & 2 \\ 0 & 2 & 1 & -2 & 0 & 0 & 0 & 2 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 1 & 0 & -1 & 2 \\ -1 & 0 & 2 & -2 & 1 & 0 & -1 & 3 \\ -1 & 1 & 2 & -3 & 2 & 0 & -2 & 4 \\ -1 & 1 & 3 & -4 & 2 & 0 & -2 & 6 \\ -1 & 1 & 2 & -3 & 1 & 1 & -2 & 5 \\ -1 & 1 & 1 & -2 & 1 & 0 & -1 & 4 \\ -1 & 1 & 1 & -1 & 0 & 0 & -1 & 3 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 1 & -1 & 1 \\ -2 & 1 & 2 & -1 & -1 & 2 & -2 & 2 \\ -2 & 2 & 2 & -2 & 0 & 2 & -3 & 3 \\ -3 & 2 & 3 & -2 & -1 & 3 & -4 & 5 \\ -2 & 2 & 2 & -2 & -1 & 3 & -3 & 4 \\ -2 & 2 & 1 & -1 & -1 & 2 & -2 & 3 \\ -1 & 2 & 1 & -1 & -1 & 1 & -1 & 2 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & 0 & -1 & 1 & -2 \\ -1 & 1 & 1 & 0 & 0 & -1 & 1 & -3 \\ -1 & 1 & 0 & 1 & 0 & -2 & 2 & -4 \\ -2 & 1 & 1 & 1 & 0 & -2 & 2 & -6 \\ -1 & 0 & 1 & 1 & 0 & -2 & 2 & -5 \\ 0 & 0 & 0 & 1 & 0 & -1 & 1 & -4 \\ 0 & 0 & 0 & 0 & 1 & -1 & 1 & -3 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 1 & -2 & 1 & -1 \\ 0 & 0 & 1 & -1 & 2 & -3 & 2 & -2 \\ 0 & 0 & 0 & 0 & 2 & -4 & 3 & -3 \\ 0 & 0 & 1 & -1 & 3 & -5 & 4 & -5 \\ 0 & -1 & 1 & 0 & 2 & -4 & 3 & -4 \\ 1 & -1 & 0 & 0 & 2 & -3 & 2 & -3 \\ 0 & -1 & 0 & 0 & 2 & -2 & 1 & -2 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & 0 & -1 & 0 & -1 \\ -2 & -1 & 1 & 1 & 1 & -2 & 0 & -1 \\ -2 & -1 & 0 & 2 & 1 & -3 & 1 & -2 \\ -3 & -2 & 1 & 2 & 2 & -4 & 1 & -3 \\ -2 & -2 & 1 & 2 & 1 & -3 & 1 & -3 \\ -1 & -2 & 0 & 2 & 1 & -2 & 0 & -2 \\ -1 & -1 & 0 & 1 & 1 & -1 & 0 & -2 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & -2 & 2 & 0 & 0 & 0 \\ -1 & 2 & 1 & -3 & 2 & 0 & 1 & -1 \\ -1 & 2 & 0 & -3 & 3 & 0 & 1 & -1 \\ -2 & 3 & 1 & -5 & 4 & 1 & 1 & -2 \\ -2 & 2 & 1 & -4 & 3 & 1 & 1 & -1 \\ -1 & 2 & 0 & -3 & 2 & 1 & 1 & -1 \\ -1 & 1 & 0 & -2 & 2 & 0 & 1 & -1 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & -1 & 2 & 0 & -1 & 1 \\ -2 & 0 & 1 & -2 & 3 & -1 & 0 & 1 \\ -2 & 0 & 0 & -2 & 4 & -1 & 0 & 1 \\ -3 & 0 & 1 & -4 & 6 & -1 & 0 & 1 \\ -3 & 0 & 1 & -3 & 4 & 0 & 0 & 1 \\ -2 & 0 & 0 & -2 & 3 & 0 & 0 & 1 \\ -2 & 0 & 0 & -1 & 2 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 1 & 1 & -1 & 0 \\ -3 & 1 & 1 & -1 & 1 & 1 & -1 & 0 \\ -3 & 1 & 0 & -1 & 2 & 1 & -1 & 0 \\ -5 & 1 & 1 & -2 & 3 & 2 & -2 & 0 \\ -4 & 1 & 1 & -2 & 2 & 2 & -1 & 0 \\ -3 & 1 & 0 & -1 & 1 & 2 & -1 & 0 \\ -2 & 1 & 0 & -1 & 1 & 1 & 0 & -1 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 1 & -1 & -1 & 2 & -2 \\ 0 & 0 & -1 & 2 & -1 & -1 & 2 & -3 \\ -1 & 0 & 0 & 2 & -1 & -2 & 3 & -4 \\ -1 & -1 & -1 & 4 & -2 & -2 & 4 & -6 \\ 0 & -1 & -1 & 3 & -1 & -2 & 3 & -5 \\ 0 & -1 & 0 & 2 & -1 & -1 & 2 & -4 \\ 0 & -1 & 0 & 1 & 0 & -1 & 2 & -3 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & -2 & 2 & -1 \\ 1 & -1 & -1 & 1 & 1 & -3 & 3 & -2 \\ 0 & -1 & 0 & 1 & 1 & -4 & 4 & -3 \\ 1 & -2 & -1 & 2 & 1 & -5 & 6 & -5 \\ 1 & -2 & -1 & 2 & 1 & -4 & 4 & -4 \\ 1 & -2 & 0 & 1 & 1 & -3 & 3 & -3 \\ 0 & -2 & 0 & 1 & 1 & -2 & 2 & -2 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 2 & -1 & -1 & 1 & -1 \\ -1 & -2 & -1 & 3 & 0 & -2 & 1 & -1 \\ -2 & -2 & 0 & 3 & 0 & -3 & 2 & -2 \\ -2 & -4 & -1 & 5 & 0 & -4 & 3 & -3 \\ -1 & -3 & -1 & 4 & 0 & -3 & 2 & -3 \\ -1 & -3 & 0 & 3 & 0 & -2 & 1 & -2 \\ -1 & -2 & 0 & 2 & 0 & -1 & 1 & -2 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & -1 & 1 & 0 & 1 & 0 \\ 0 & 1 & -1 & -1 & 1 & 0 & 2 & -1 \\ -1 & 1 & 0 & -2 & 2 & 0 & 2 & -1 \\ -1 & 1 & -1 & -2 & 2 & 1 & 3 & -2 \\ -1 & 1 & -1 & -2 & 2 & 1 & 2 & -1 \\ -1 & 1 & 0 & -2 & 1 & 1 & 2 & -1 \\ -1 & 0 & 0 & -1 & 1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 0 & 1 & 0 & 0 & 1 \\ -1 & -1 & -1 & 0 & 2 & -1 & 1 & 1 \\ -2 & -1 & 0 & -1 & 3 & -1 & 1 & 1 \\ -2 & -2 & -1 & -1 & 4 & -1 & 2 & 1 \\ -2 & -1 & -1 & -1 & 3 & 0 & 1 & 1 \\ -2 & -1 & 0 & -1 & 2 & 0 & 1 & 1 \\ -2 & -1 & 0 & 0 & 1 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ -2 & 0 & -1 & 1 & 0 & 1 & 0 & 0 \\ -3 & 0 & 0 & 0 & 1 & 1 & 0 & 0 \\ -4 & -1 & -1 & 1 & 1 & 2 & 0 & 0 \\ -3 & 0 & -1 & 0 & 1 & 2 & 0 & 0 \\ -3 & 0 & 0 & 0 & 0 & 2 & 0 & 0 \\ -2 & 0 & 0 & 0 & 0 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 1 & 1 & 1 & 0 & -2 & 1 & -1 & -1 \\ 2 & 1 & 0 & 1 & -3 & 1 & -1 & -1 \\ 2 & 2 & 1 & 1 & -4 & 1 & -2 & -1 \\ 2 & 1 & 1 & 1 & -3 & 0 & -1 & -1 \\ 2 & 1 & 0 & 1 & -2 & 0 & -1 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 2 & 0 & 1 & -1 & 0 & -1 & 0 & 0 \\ 3 & 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 4 & 1 & 1 & -1 & -1 & -2 & 0 & 0 \\ 3 & 0 & 1 & 0 & -1 & -2 & 0 & 0 \\ 3 & 0 & 0 & 0 & 0 & -2 & 0 & 0 \\ 2 & 0 & 0 & 0 & 0 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 0 & -1 & 1 & 1 & -1 & 0 & -2 & 1 \\ 1 & -1 & 0 & 2 & -2 & 0 & -2 & 1 \\ 1 & -1 & 1 & 2 & -2 & -1 & -3 & 2 \\ 1 & -1 & 1 & 2 & -2 & -1 & -2 & 1 \\ 1 & -1 & 0 & 2 & -1 & -1 & -2 & 1 \\ 1 & 0 & 0 & 1 & -1 & 0 & -2 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & -2 & 1 & 1 & -1 & 1 \\ 1 & 2 & 1 & -3 & 0 & 2 & -1 & 1 \\ 2 & 2 & 0 & -3 & 0 & 3 & -2 & 2 \\ 2 & 4 & 1 & -5 & 0 & 4 & -3 & 3 \\ 1 & 3 & 1 & -4 & 0 & 3 & -2 & 3 \\ 1 & 3 & 0 & -3 & 0 & 2 & -1 & 2 \\ 1 & 2 & 0 & -2 & 0 & 1 & -1 & 2 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 1 & 1 & -2 & 2 \\ 0 & 0 & 1 & -2 & 1 & 1 & -2 & 3 \\ 1 & 0 & 0 & -2 & 1 & 2 & -3 & 4 \\ 1 & 1 & 1 & -4 & 2 & 2 & -4 & 6 \\ 0 & 1 & 1 & -3 & 1 & 2 & -3 & 5 \\ 0 & 1 & 0 & -2 & 1 & 1 & -2 & 4 \\ 0 & 1 & 0 & -1 & 0 & 1 & -2 & 3 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 2 & -2 & 1 \\ -1 & 1 & 1 & -1 & -1 & 3 & -3 & 2 \\ 0 & 1 & 0 & -1 & -1 & 4 & -4 & 3 \\ -1 & 2 & 1 & -2 & -1 & 5 & -6 & 5 \\ -1 & 2 & 1 & -2 & -1 & 4 & -4 & 4 \\ -1 & 2 & 0 & -1 & -1 & 3 & -3 & 3 \\ 0 & 2 & 0 & -1 & -1 & 2 & -2 & 2 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & 0 & -1 & 1 & -2 \\ 0 & 1 & -1 & 1 & 0 & -1 & 1 & -3 \\ -1 & 1 & 0 & 1 & 0 & -2 & 2 & -4 \\ -1 & 1 & -1 & 2 & 0 & -2 & 2 & -6 \\ 0 & 0 & -1 & 2 & 0 & -2 & 2 & -5 \\ 0 & 0 & 0 & 1 & 0 & -1 & 1 & -4 \\ 0 & 0 & 0 & 0 & 1 & -1 & 1 & -3 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 1 & -2 & 1 & -1 \\ 1 & 0 & -1 & 0 & 2 & -3 & 2 & -2 \\ 0 & 0 & 0 & 0 & 2 & -4 & 3 & -3 \\ 1 & 0 & -1 & 0 & 3 & -5 & 4 & -5 \\ 1 & -1 & -1 & 1 & 2 & -4 & 3 & -4 \\ 1 & -1 & 0 & 0 & 2 & -3 & 2 & -3 \\ 0 & -1 & 0 & 0 & 2 & -2 & 1 & -2 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & 0 & -1 & 0 & -1 \\ -1 & -1 & -1 & 2 & 1 & -2 & 0 & -1 \\ -2 & -1 & 0 & 2 & 1 & -3 & 1 & -2 \\ -2 & -2 & -1 & 3 & 2 & -4 & 1 & -3 \\ -1 & -2 & -1 & 3 & 1 & -3 & 1 & -3 \\ -1 & -2 & 0 & 2 & 1 & -2 & 0 & -2 \\ -1 & -1 & 0 & 1 & 1 & -1 & 0 & -2 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & -2 & 2 & 0 & 0 & 0 \\ 0 & 2 & -1 & -2 & 2 & 0 & 1 & -1 \\ -1 & 2 & 0 & -3 & 3 & 0 & 1 & -1 \\ -1 & 3 & -1 & -4 & 4 & 1 & 1 & -2 \\ -1 & 2 & -1 & -3 & 3 & 1 & 1 & -1 \\ -1 & 2 & 0 & -3 & 2 & 1 & 1 & -1 \\ -1 & 1 & 0 & -2 & 2 & 0 & 1 & -1 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & -1 & 2 & 0 & -1 & 1 \\ -1 & 0 & -1 & -1 & 3 & -1 & 0 & 1 \\ -2 & 0 & 0 & -2 & 4 & -1 & 0 & 1 \\ -2 & 0 & -1 & -3 & 6 & -1 & 0 & 1 \\ -2 & 0 & -1 & -2 & 4 & 0 & 0 & 1 \\ -2 & 0 & 0 & -2 & 3 & 0 & 0 & 1 \\ -2 & 0 & 0 & -1 & 2 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 1 & 1 & -1 & 0 \\ -2 & 1 & -1 & 0 & 1 & 1 & -1 & 0 \\ -3 & 1 & 0 & -1 & 2 & 1 & -1 & 0 \\ -4 & 1 & -1 & -1 & 3 & 2 & -2 & 0 \\ -3 & 1 & -1 & -1 & 2 & 2 & -1 & 0 \\ -3 & 1 & 0 & -1 & 1 & 2 & -1 & 0 \\ -2 & 1 & 0 & -1 & 1 & 1 & 0 & -1 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 1 & -2 & 0 & 1 & -1 \\ 1 & 0 & 1 & 1 & -3 & 1 & 0 & -1 \\ 2 & 0 & 0 & 2 & -4 & 1 & 0 & -1 \\ 2 & 0 & 1 & 3 & -6 & 1 & 0 & -1 \\ 2 & 0 & 1 & 2 & -4 & 0 & 0 & -1 \\ 2 & 0 & 0 & 2 & -3 & 0 & 0 & -1 \\ 2 & 0 & 0 & 1 & -2 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & -1 & -1 & 1 & 0 \\ 2 & -1 & 1 & 0 & -1 & -1 & 1 & 0 \\ 3 & -1 & 0 & 1 & -2 & -1 & 1 & 0 \\ 4 & -1 & 1 & 1 & -3 & -2 & 2 & 0 \\ 3 & -1 & 1 & 1 & -2 & -2 & 1 & 0 \\ 3 & -1 & 0 & 1 & -1 & -2 & 1 & 0 \\ 2 & -1 & 0 & 1 & -1 & -1 & 0 & 1 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 2 & -2 & 0 & 0 & 0 \\ 0 & -2 & 1 & 2 & -2 & 0 & -1 & 1 \\ 1 & -2 & 0 & 3 & -3 & 0 & -1 & 1 \\ 1 & -3 & 1 & 4 & -4 & -1 & -1 & 2 \\ 1 & -2 & 1 & 3 & -3 & -1 & -1 & 1 \\ 1 & -2 & 0 & 3 & -2 & -1 & -1 & 1 \\ 1 & -1 & 0 & 2 & -2 & 0 & -1 & 1 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & -1 & 0 & 1 & 0 & 1 \\ 1 & 1 & 1 & -2 & -1 & 2 & 0 & 1 \\ 2 & 1 & 0 & -2 & -1 & 3 & -1 & 2 \\ 2 & 2 & 1 & -3 & -2 & 4 & -1 & 3 \\ 1 & 2 & 1 & -3 & -1 & 3 & -1 & 3 \\ 1 & 2 & 0 & -2 & -1 & 2 & 0 & 2 \\ 1 & 1 & 0 & -1 & -1 & 1 & 0 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 1 & -1 & 2 \\ 0 & -1 & 1 & -1 & 0 & 1 & -1 & 3 \\ 1 & -1 & 0 & -1 & 0 & 2 & -2 & 4 \\ 1 & -1 & 1 & -2 & 0 & 2 & -2 & 6 \\ 0 & 0 & 1 & -2 & 0 & 2 & -2 & 5 \\ 0 & 0 & 0 & -1 & 0 & 1 & -1 & 4 \\ 0 & 0 & 0 & 0 & -1 & 1 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 2 & -1 & 1 \\ -1 & 0 & 1 & 0 & -2 & 3 & -2 & 2 \\ 0 & 0 & 0 & 0 & -2 & 4 & -3 & 3 \\ -1 & 0 & 1 & 0 & -3 & 5 & -4 & 5 \\ -1 & 1 & 1 & -1 & -2 & 4 & -3 & 4 \\ -1 & 1 & 0 & 0 & -2 & 3 & -2 & 3 \\ 0 & 1 & 0 & 0 & -2 & 2 & -1 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 2 & -3 & 0 & 1 \\ 0 & -2 & 2 & 0 & 2 & -3 & 0 & 1 \\ 0 & -2 & 3 & -1 & 4 & -5 & 0 & 1 \\ 0 & -2 & 2 & 0 & 3 & -4 & 0 & 0 \\ 0 & -2 & 2 & 0 & 2 & -3 & 0 & 0 \\ -1 & -1 & 2 & 0 & 1 & -2 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & 0 & 0 & -1 & 0 \\ -1 & 0 & 1 & 1 & 0 & -1 & -1 & 0 \\ -1 & -1 & 2 & 1 & 0 & -1 & -1 & 0 \\ -2 & -1 & 3 & 1 & 1 & -2 & -2 & 0 \\ -1 & -1 & 2 & 1 & 1 & -2 & -1 & -1 \\ -1 & -1 & 2 & 1 & 0 & -1 & -1 & -1 \\ -1 & 0 & 2 & 0 & 0 & -1 & 0 & -1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \\ 1 & 1 & 1 & -1 & 1 & -2 & 1 & -1 \\ 1 & 0 & 2 & -1 & 1 & -2 & 1 & -1 \\ 1 & 1 & 3 & -2 & 2 & -3 & 1 & -2 \\ 1 & 0 & 2 & -1 & 2 & -3 & 1 & -2 \\ 1 & 0 & 2 & -1 & 1 & -2 & 1 & -2 \\ 0 & 0 & 2 & -1 & 1 & -2 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 1 & 1 & 0 & -1 & 0 & 0 & 1 \\ -3 & 1 & 1 & 0 & 0 & -1 & 0 & 2 \\ -4 & 1 & 2 & 0 & -1 & -1 & 1 & 2 \\ -6 & 2 & 3 & -1 & 0 & -2 & 1 & 3 \\ -5 & 2 & 2 & -1 & 0 & -1 & 1 & 2 \\ -4 & 1 & 2 & -1 & 0 & 0 & 0 & 2 \\ -3 & 1 & 2 & -1 & 0 & 0 & 0 & 1 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 2 & 1 & -1 & -1 & 0 & 1 & 0 \\ -2 & 3 & 1 & -1 & -1 & 0 & 1 & 0 \\ -3 & 3 & 2 & -1 & -2 & 0 & 2 & 0 \\ -5 & 5 & 3 & -2 & -2 & 0 & 2 & 0 \\ -4 & 4 & 2 & -2 & -1 & 0 & 2 & 0 \\ -3 & 3 & 2 & -2 & -1 & 1 & 1 & 0 \\ -2 & 2 & 2 & -2 & 0 & 0 & 1 & 0 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & -1 & 1 & 1 \\ -1 & 2 & 1 & -2 & 1 & -2 & 2 & 1 \\ -2 & 2 & 2 & -2 & 0 & -2 & 3 & 1 \\ -3 & 4 & 3 & -4 & 1 & -3 & 4 & 1 \\ -3 & 3 & 2 & -3 & 1 & -2 & 3 & 1 \\ -2 & 2 & 2 & -3 & 1 & -1 & 2 & 1 \\ -2 & 1 & 2 & -2 & 1 & -1 & 1 & 1 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -2 & -1 & 1 & 1 & 0 & -1 & 0 \\ 2 & -3 & -1 & 1 & 1 & 0 & -1 & 0 \\ 3 & -3 & -2 & 1 & 2 & 0 & -2 & 0 \\ 5 & -5 & -3 & 2 & 2 & 0 & -2 & 0 \\ 4 & -4 & -2 & 2 & 1 & 0 & -2 & 0 \\ 3 & -3 & -2 & 2 & 1 & -1 & -1 & 0 \\ 2 & -2 & -2 & 2 & 0 & 0 & -1 & 0 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & 1 & -1 & -1 \\ 1 & -2 & -1 & 2 & -1 & 2 & -2 & -1 \\ 2 & -2 & -2 & 2 & 0 & 2 & -3 & -1 \\ 3 & -4 & -3 & 4 & -1 & 3 & -4 & -1 \\ 3 & -3 & -2 & 3 & -1 & 2 & -3 & -1 \\ 2 & -2 & -2 & 3 & -1 & 1 & -2 & -1 \\ 2 & -1 & -2 & 2 & -1 & 1 & -1 & -1 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -1 & 0 & 1 & 0 & 0 & -1 \\ 3 & -1 & -1 & 0 & 0 & 1 & 0 & -2 \\ 4 & -1 & -2 & 0 & 1 & 1 & -1 & -2 \\ 6 & -2 & -3 & 1 & 0 & 2 & -1 & -3 \\ 5 & -2 & -2 & 1 & 0 & 1 & -1 & -2 \\ 4 & -1 & -2 & 1 & 0 & 0 & 0 & -2 \\ 3 & -1 & -2 & 1 & 0 & 0 & 0 & -1 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \\ -1 & -1 & -1 & 1 & -1 & 2 & -1 & 1 \\ -1 & 0 & -2 & 1 & -1 & 2 & -1 & 1 \\ -1 & -1 & -3 & 2 & -2 & 3 & -1 & 2 \\ -1 & 0 & -2 & 1 & -2 & 3 & -1 & 2 \\ -1 & 0 & -2 & 1 & -1 & 2 & -1 & 2 \\ 0 & 0 & -2 & 1 & -1 & 2 & -1 & 1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & -1 & 1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -2 & 3 & 0 & -1 \\ 0 & 2 & -2 & 0 & -2 & 3 & 0 & -1 \\ 0 & 2 & -3 & 1 & -4 & 5 & 0 & -1 \\ 0 & 2 & -2 & 0 & -3 & 4 & 0 & 0 \\ 0 & 2 & -2 & 0 & -2 & 3 & 0 & 0 \\ 1 & 1 & -2 & 0 & -1 & 2 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 0 & 1 & 0 \\ 1 & 0 & -1 & -1 & 0 & 1 & 1 & 0 \\ 1 & 1 & -2 & -1 & 0 & 1 & 1 & 0 \\ 2 & 1 & -3 & -1 & -1 & 2 & 2 & 0 \\ 1 & 1 & -2 & -1 & -1 & 2 & 1 & 1 \\ 1 & 1 & -2 & -1 & 0 & 1 & 1 & 1 \\ 1 & 0 & -2 & 0 & 0 & 1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -2 & -1 & 1 & 1 & 0 & -1 & 0 \\ 1 & -3 & -1 & 1 & 2 & -1 & 0 & -1 \\ 2 & -4 & -2 & 2 & 2 & -1 & 0 & -1 \\ 3 & -5 & -3 & 2 & 4 & -2 & 0 & -2 \\ 2 & -4 & -2 & 2 & 3 & -2 & 0 & -2 \\ 2 & -3 & -2 & 2 & 2 & -2 & 0 & -1 \\ 1 & -2 & -2 & 2 & 1 & -1 & 0 & -1 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & 1 & -1 & -1 \\ 0 & -2 & -1 & 2 & 0 & 1 & -1 & -2 \\ 1 & -3 & -2 & 3 & 0 & 1 & -1 & -2 \\ 1 & -4 & -3 & 4 & 1 & 1 & -2 & -3 \\ 1 & -3 & -2 & 3 & 1 & 0 & -1 & -3 \\ 1 & -2 & -2 & 3 & 0 & 0 & -1 & -2 \\ 1 & -1 & -2 & 2 & 0 & 0 & 0 & -2 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -1 & 0 & 1 & 0 & 0 & -1 \\ 2 & -1 & -1 & 0 & 1 & 0 & 1 & -3 \\ 3 & -2 & -2 & 1 & 1 & 0 & 1 & -3 \\ 4 & -2 & -3 & 1 & 2 & 0 & 1 & -5 \\ 3 & -2 & -2 & 1 & 2 & -1 & 1 & -4 \\ 3 & -1 & -2 & 1 & 1 & -1 & 1 & -3 \\ 2 & -1 & -2 & 1 & 1 & -1 & 1 & -2 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \\ -2 & -1 & -1 & 1 & 0 & 1 & 0 & 0 \\ -2 & -1 & -2 & 2 & -1 & 1 & 1 & 0 \\ -3 & -1 & -3 & 2 & 0 & 1 & 1 & 0 \\ -3 & 0 & -2 & 1 & 0 & 1 & 1 & 0 \\ -2 & 0 & -2 & 1 & 0 & 1 & 0 & 1 \\ -1 & 0 & -2 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & -1 & 1 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 & 2 & 1 & -2 \\ -1 & 1 & -2 & 1 & -2 & 2 & 2 & -2 \\ -2 & 2 & -3 & 1 & -2 & 3 & 2 & -3 \\ -2 & 2 & -2 & 0 & -1 & 2 & 2 & -2 \\ -1 & 2 & -2 & 0 & -1 & 2 & 1 & -1 \\ 0 & 1 & -2 & 0 & 0 & 1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & -1 & -1 & 1 & 0 & 2 & -1 \\ 0 & 0 & -2 & 0 & 0 & 0 & 3 & -1 \\ 0 & 1 & -3 & -1 & 1 & 0 & 4 & -2 \\ -1 & 1 & -2 & -1 & 1 & 0 & 3 & -1 \\ 0 & 1 & -2 & -1 & 1 & 0 & 2 & 0 \\ 0 & 0 & -2 & 0 & 1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -2 & 0 & 1 & 0 & 0 & -1 & 1 \\ 1 & -3 & 1 & 1 & 0 & -1 & 0 & 1 \\ 2 & -4 & 0 & 2 & 0 & -1 & 0 & 1 \\ 3 & -6 & 1 & 2 & 0 & -1 & 0 & 1 \\ 2 & -5 & 1 & 2 & 0 & -1 & 0 & 0 \\ 2 & -4 & 0 & 2 & 0 & -1 & 0 & 0 \\ 1 & -3 & 0 & 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & -1 & 1 & -1 & 0 \\ 0 & -2 & 1 & 2 & -2 & 1 & -1 & 0 \\ 1 & -3 & 0 & 3 & -2 & 1 & -1 & 0 \\ 1 & -5 & 1 & 4 & -3 & 2 & -2 & 0 \\ 1 & -4 & 1 & 3 & -2 & 1 & -1 & -1 \\ 1 & -3 & 0 & 3 & -2 & 1 & -1 & -1 \\ 1 & -2 & 0 & 2 & -2 & 1 & 0 & -1 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & -1 & 0 & 1 & -1 \\ 3 & -2 & 0 & 1 & -1 & 0 & 1 & -1 \\ 4 & -3 & 1 & 1 & -2 & 1 & 1 & -2 \\ 3 & -3 & 1 & 1 & -1 & 0 & 1 & -2 \\ 3 & -2 & 0 & 1 & -1 & 0 & 1 & -2 \\ 2 & -2 & 0 & 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 1 & -2 & 1 & 0 & 1 \\ -2 & -1 & 1 & 1 & -2 & 1 & 0 & 2 \\ -2 & -1 & 0 & 2 & -3 & 1 & 1 & 2 \\ -3 & -2 & 1 & 2 & -4 & 2 & 1 & 3 \\ -3 & -1 & 1 & 1 & -3 & 2 & 1 & 2 \\ -2 & -1 & 0 & 1 & -2 & 2 & 0 & 2 \\ -1 & -1 & 0 & 1 & -2 & 2 & 0 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & -2 & 1 & 1 & 0 \\ -1 & 1 & 1 & 0 & -3 & 2 & 1 & 0 \\ -1 & 1 & 0 & 1 & -4 & 2 & 2 & 0 \\ -2 & 1 & 1 & 1 & -6 & 4 & 2 & 0 \\ -2 & 1 & 1 & 0 & -4 & 3 & 2 & 0 \\ -1 & 1 & 0 & 0 & -3 & 3 & 1 & 0 \\ 0 & 0 & 0 & 0 & -2 & 2 & 1 & 0 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & 1 & -1 & -1 & 0 & 2 & 1 \\ 0 & 0 & 0 & 0 & -2 & 0 & 3 & 1 \\ 0 & 0 & 1 & -1 & -3 & 1 & 4 & 1 \\ -1 & 0 & 1 & -1 & -2 & 1 & 3 & 1 \\ 0 & 0 & 0 & -1 & -1 & 1 & 2 & 1 \\ 0 & -1 & 0 & 0 & -1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 0 & 2 & -1 & -1 & 0 \\ 1 & -1 & -1 & 0 & 3 & -2 & -1 & 0 \\ 1 & -1 & 0 & -1 & 4 & -2 & -2 & 0 \\ 2 & -1 & -1 & -1 & 6 & -4 & -2 & 0 \\ 2 & -1 & -1 & 0 & 4 & -3 & -2 & 0 \\ 1 & -1 & 0 & 0 & 3 & -3 & -1 & 0 \\ 0 & 0 & 0 & 0 & 2 & -2 & -1 & 0 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & -1 & 1 & 1 & 0 & -2 & -1 \\ 0 & 0 & 0 & 0 & 2 & 0 & -3 & -1 \\ 0 & 0 & -1 & 1 & 3 & -1 & -4 & -1 \\ 1 & 0 & -1 & 1 & 2 & -1 & -3 & -1 \\ 0 & 0 & 0 & 1 & 1 & -1 & -2 & -1 \\ 0 & 1 & 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 2 & -1 & 0 & -1 \\ 2 & 1 & -1 & -1 & 2 & -1 & 0 & -2 \\ 2 & 1 & 0 & -2 & 3 & -1 & -1 & -2 \\ 3 & 2 & -1 & -2 & 4 & -2 & -1 & -3 \\ 3 & 1 & -1 & -1 & 3 & -2 & -1 & -2 \\ 2 & 1 & 0 & -1 & 2 & -2 & 0 & -2 \\ 1 & 1 & 0 & -1 & 2 & -2 & 0 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ -2 & 1 & -1 & 0 & 1 & 0 & -1 & 1 \\ -3 & 2 & 0 & -1 & 1 & 0 & -1 & 1 \\ -4 & 3 & -1 & -1 & 2 & -1 & -1 & 2 \\ -3 & 3 & -1 & -1 & 1 & 0 & -1 & 2 \\ -3 & 2 & 0 & -1 & 1 & 0 & -1 & 2 \\ -2 & 2 & 0 & -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 2 & 0 & -1 & 0 & 0 & 1 & -1 \\ -1 & 3 & -1 & -1 & 0 & 1 & 0 & -1 \\ -2 & 4 & 0 & -2 & 0 & 1 & 0 & -1 \\ -3 & 6 & -1 & -2 & 0 & 1 & 0 & -1 \\ -2 & 5 & -1 & -2 & 0 & 1 & 0 & 0 \\ -2 & 4 & 0 & -2 & 0 & 1 & 0 & 0 \\ -1 & 3 & 0 & -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 1 & -1 & 1 & 0 \\ 0 & 2 & -1 & -2 & 2 & -1 & 1 & 0 \\ -1 & 3 & 0 & -3 & 2 & -1 & 1 & 0 \\ -1 & 5 & -1 & -4 & 3 & -2 & 2 & 0 \\ -1 & 4 & -1 & -3 & 2 & -1 & 1 & 1 \\ -1 & 3 & 0 & -3 & 2 & -1 & 1 & 1 \\ -1 & 2 & 0 & -2 & 2 & -1 & 0 & 1 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -2 & 0 & 1 & 0 & 0 & -1 & 1 \\ 2 & -3 & -1 & 2 & 0 & -1 & 0 & 1 \\ 2 & -4 & 0 & 2 & 0 & -1 & 0 & 1 \\ 4 & -6 & -1 & 3 & 0 & -1 & 0 & 1 \\ 3 & -5 & -1 & 3 & 0 & -1 & 0 & 0 \\ 2 & -4 & 0 & 2 & 0 & -1 & 0 & 0 \\ 1 & -3 & 0 & 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & -1 & 1 & -1 & 0 \\ 1 & -2 & -1 & 3 & -2 & 1 & -1 & 0 \\ 1 & -3 & 0 & 3 & -2 & 1 & -1 & 0 \\ 2 & -5 & -1 & 5 & -3 & 2 & -2 & 0 \\ 2 & -4 & -1 & 4 & -2 & 1 & -1 & -1 \\ 1 & -3 & 0 & 3 & -2 & 1 & -1 & -1 \\ 1 & -2 & 0 & 2 & -2 & 1 & 0 & -1 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 3 & -1 & -1 & 1 & -1 & 0 & 1 & -1 \\ 3 & -2 & 0 & 1 & -1 & 0 & 1 & -1 \\ 5 & -3 & -1 & 2 & -2 & 1 & 1 & -2 \\ 4 & -3 & -1 & 2 & -1 & 0 & 1 & -2 \\ 3 & -2 & 0 & 1 & -1 & 0 & 1 & -2 \\ 2 & -2 & 0 & 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 1 & -2 & 1 & 0 & 1 \\ -1 & -1 & -1 & 2 & -2 & 1 & 0 & 2 \\ -2 & -1 & 0 & 2 & -3 & 1 & 1 & 2 \\ -2 & -2 & -1 & 3 & -4 & 2 & 1 & 3 \\ -2 & -1 & -1 & 2 & -3 & 2 & 1 & 2 \\ -2 & -1 & 0 & 1 & -2 & 2 & 0 & 2 \\ -1 & -1 & 0 & 1 & -2 & 2 & 0 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & -2 & 1 & 1 & 0 \\ 0 & 1 & -1 & 1 & -3 & 2 & 1 & 0 \\ -1 & 1 & 0 & 1 & -4 & 2 & 2 & 0 \\ -1 & 1 & -1 & 2 & -6 & 4 & 2 & 0 \\ -1 & 1 & -1 & 1 & -4 & 3 & 2 & 0 \\ -1 & 1 & 0 & 0 & -3 & 3 & 1 & 0 \\ 0 & 0 & 0 & 0 & -2 & 2 & 1 & 0 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 0 & 1 & 1 \\ 1 & 0 & -1 & 0 & -1 & 0 & 2 & 1 \\ 0 & 0 & 0 & 0 & -2 & 0 & 3 & 1 \\ 1 & 0 & -1 & 0 & -3 & 1 & 4 & 1 \\ 0 & 0 & -1 & 0 & -2 & 1 & 3 & 1 \\ 0 & 0 & 0 & -1 & -1 & 1 & 2 & 1 \\ 0 & -1 & 0 & 0 & -1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 0 & 2 & -1 & -1 & 0 \\ 0 & -1 & 1 & -1 & 3 & -2 & -1 & 0 \\ 1 & -1 & 0 & -1 & 4 & -2 & -2 & 0 \\ 1 & -1 & 1 & -2 & 6 & -4 & -2 & 0 \\ 1 & -1 & 1 & -1 & 4 & -3 & -2 & 0 \\ 1 & -1 & 0 & 0 & 3 & -3 & -1 & 0 \\ 0 & 0 & 0 & 0 & 2 & -2 & -1 & 0 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 1 & 0 & -1 & -1 \\ -1 & 0 & 1 & 0 & 1 & 0 & -2 & -1 \\ 0 & 0 & 0 & 0 & 2 & 0 & -3 & -1 \\ -1 & 0 & 1 & 0 & 3 & -1 & -4 & -1 \\ 0 & 0 & 1 & 0 & 2 & -1 & -3 & -1 \\ 0 & 0 & 0 & 1 & 1 & -1 & -2 & -1 \\ 0 & 1 & 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 2 & -1 & 0 & -1 \\ 1 & 1 & 1 & -2 & 2 & -1 & 0 & -2 \\ 2 & 1 & 0 & -2 & 3 & -1 & -1 & -2 \\ 2 & 2 & 1 & -3 & 4 & -2 & -1 & -3 \\ 2 & 1 & 1 & -2 & 3 & -2 & -1 & -2 \\ 2 & 1 & 0 & -1 & 2 & -2 & 0 & -2 \\ 1 & 1 & 0 & -1 & 2 & -2 & 0 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ -3 & 1 & 1 & -1 & 1 & 0 & -1 & 1 \\ -3 & 2 & 0 & -1 & 1 & 0 & -1 & 1 \\ -5 & 3 & 1 & -2 & 2 & -1 & -1 & 2 \\ -4 & 3 & 1 & -2 & 1 & 0 & -1 & 2 \\ -3 & 2 & 0 & -1 & 1 & 0 & -1 & 2 \\ -2 & 2 & 0 & -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 2 & 0 & -1 & 0 & 0 & 1 & -1 \\ -2 & 3 & 1 & -2 & 0 & 1 & 0 & -1 \\ -2 & 4 & 0 & -2 & 0 & 1 & 0 & -1 \\ -4 & 6 & 1 & -3 & 0 & 1 & 0 & -1 \\ -3 & 5 & 1 & -3 & 0 & 1 & 0 & 0 \\ -2 & 4 & 0 & -2 & 0 & 1 & 0 & 0 \\ -1 & 3 & 0 & -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 1 & -1 & 1 & 0 \\ -1 & 2 & 1 & -3 & 2 & -1 & 1 & 0 \\ -1 & 3 & 0 & -3 & 2 & -1 & 1 & 0 \\ -2 & 5 & 1 & -5 & 3 & -2 & 2 & 0 \\ -2 & 4 & 1 & -4 & 2 & -1 & 1 & 1 \\ -1 & 3 & 0 & -3 & 2 & -1 & 1 & 1 \\ -1 & 2 & 0 & -2 & 2 & -1 & 0 & 1 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & 0 & 1 & 0 & -2 & 1 \\ 1 & -1 & 1 & -1 & 2 & -1 & -2 & 1 \\ 2 & -1 & 0 & -1 & 3 & -1 & -3 & 1 \\ 3 & -2 & 1 & -2 & 4 & -1 & -4 & 1 \\ 2 & -2 & 1 & -1 & 3 & -1 & -3 & 0 \\ 2 & -2 & 0 & 0 & 2 & -1 & -2 & 0 \\ 1 & -1 & 0 & 0 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 1 & -2 & 0 \\ 0 & 0 & 1 & 0 & 0 & 1 & -3 & 0 \\ 1 & 0 & 0 & 0 & 1 & 1 & -4 & 0 \\ 1 & -1 & 1 & 0 & 1 & 2 & -6 & 0 \\ 1 & -1 & 1 & 0 & 1 & 1 & -4 & -1 \\ 1 & -1 & 0 & 1 & 0 & 1 & -3 & -1 \\ 1 & 0 & 0 & 0 & 0 & 1 & -2 & -1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & 0 & -1 & 1 & 0 & -1 & 0 \\ 2 & 1 & 1 & -2 & 1 & 0 & -1 & -1 \\ 3 & 1 & 0 & -2 & 2 & 0 & -2 & -1 \\ 4 & 1 & 1 & -3 & 2 & 1 & -3 & -2 \\ 3 & 0 & 1 & -2 & 2 & 0 & -2 & -2 \\ 3 & 0 & 0 & -1 & 1 & 0 & -1 & -2 \\ 2 & 0 & 0 & -1 & 1 & 0 & -1 & -1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \\ -2 & 1 & 1 & -1 & 0 & 1 & -2 & 2 \\ -2 & 2 & 0 & -1 & 0 & 1 & -2 & 2 \\ -3 & 2 & 1 & -2 & 0 & 2 & -3 & 3 \\ -3 & 2 & 1 & -2 & 0 & 2 & -2 & 2 \\ -2 & 1 & 0 & -1 & 0 & 2 & -2 & 2 \\ -1 & 1 & 0 & -1 & 0 & 2 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & -1 & 1 & 0 & 0 \\ -1 & 3 & 1 & -2 & -1 & 2 & -1 & 0 \\ -1 & 4 & 0 & -2 & -1 & 2 & -1 & 0 \\ -2 & 5 & 1 & -3 & -2 & 4 & -2 & 0 \\ -2 & 4 & 1 & -3 & -1 & 3 & -1 & 0 \\ -1 & 3 & 0 & -2 & -1 & 3 & -1 & 0 \\ 0 & 2 & 0 & -2 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 0 & 0 & 1 \\ 0 & 2 & 1 & -3 & 1 & 0 & 0 & 1 \\ 0 & 3 & 0 & -3 & 1 & 0 & 0 & 1 \\ 0 & 4 & 1 & -5 & 1 & 1 & 0 & 1 \\ -1 & 3 & 1 & -4 & 1 & 1 & 0 & 1 \\ 0 & 2 & 0 & -3 & 1 & 1 & 0 & 1 \\ 0 & 1 & 0 & -2 & 1 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -2 & 0 & 1 & 0 & 0 & -1 & 1 \\ 1 & -3 & 1 & 1 & 0 & -1 & 0 & 1 \\ 2 & -4 & 0 & 2 & 0 & -1 & 0 & 1 \\ 3 & -5 & 1 & 2 & 0 & -2 & 0 & 2 \\ 2 & -4 & 1 & 2 & 0 & -2 & 0 & 1 \\ 2 & -3 & 0 & 2 & 0 & -2 & 0 & 1 \\ 1 & -2 & 0 & 2 & -1 & -1 & 0 & 1 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & -1 & 1 & -1 & 0 \\ 0 & -2 & 1 & 2 & -2 & 1 & -1 & 0 \\ 1 & -3 & 0 & 3 & -2 & 1 & -1 & 0 \\ 1 & -4 & 1 & 4 & -3 & 1 & -2 & 1 \\ 1 & -3 & 1 & 3 & -2 & 0 & -1 & 0 \\ 1 & -2 & 0 & 3 & -2 & 0 & -1 & 0 \\ 1 & -1 & 0 & 2 & -2 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & -1 & 0 & 1 & -1 \\ 3 & -2 & 0 & 1 & -1 & 0 & 1 & -1 \\ 4 & -2 & 1 & 1 & -2 & 0 & 1 & -1 \\ 3 & -2 & 1 & 1 & -1 & -1 & 1 & -1 \\ 3 & -1 & 0 & 1 & -1 & -1 & 1 & -1 \\ 2 & -1 & 0 & 1 & -1 & -1 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 1 & -2 & 1 & 0 & 1 \\ -2 & -1 & 1 & 1 & -2 & 1 & 0 & 2 \\ -2 & -1 & 0 & 2 & -3 & 1 & 1 & 2 \\ -3 & -1 & 1 & 2 & -4 & 1 & 1 & 4 \\ -3 & 0 & 1 & 1 & -3 & 1 & 1 & 3 \\ -2 & 0 & 0 & 1 & -2 & 1 & 0 & 3 \\ -1 & 0 & 0 & 1 & -2 & 1 & 0 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & -2 & 1 & 1 & 0 \\ -1 & 1 & 1 & 0 & -3 & 2 & 1 & 0 \\ -1 & 1 & 0 & 1 & -4 & 2 & 2 & 0 \\ -2 & 2 & 1 & 1 & -6 & 3 & 2 & 1 \\ -2 & 2 & 1 & 0 & -4 & 2 & 2 & 1 \\ -1 & 2 & 0 & 0 & -3 & 2 & 1 & 1 \\ 0 & 1 & 0 & 0 & -2 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & 1 & -1 & -1 & 0 & 2 & 1 \\ 0 & 0 & 0 & 0 & -2 & 0 & 3 & 1 \\ 0 & 1 & 1 & -1 & -3 & 0 & 4 & 2 \\ -1 & 1 & 1 & -1 & -2 & 0 & 3 & 2 \\ 0 & 1 & 0 & -1 & -1 & 0 & 2 & 2 \\ 0 & 0 & 0 & 0 & -1 & 0 & 1 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}.$$

The character table of $G^{s_{108}}$:

										10										20				
$\chi_{108}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(2)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(3)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(4)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(5)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(6)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(9)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{108}^{(10)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{108}^{(11)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{108}^{(12)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{108}^{(13)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{108}^{(14)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{108}^{(15)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{108}^{(16)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{108}^{(17)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{108}^{(18)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{108}^{(19)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{108}^{(20)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{108}^{(21)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{108}^{(22)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{108}^{(23)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{108}^{(24)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{108}^{(25)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
$\chi_{108}^{(26)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
$\chi_{108}^{(27)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2
$\chi_{108}^{(28)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2
$\chi_{108}^{(29)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
$\chi_{108}^{(30)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
$\chi_{108}^{(31)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2
$\chi_{108}^{(32)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2
$\chi_{108}^{(33)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B
$\chi_{108}^{(34)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B
$\chi_{108}^{(35)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B
$\chi_{108}^{(36)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B
$\chi_{108}^{(37)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B
$\chi_{108}^{(38)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B
$\chi_{108}^{(39)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B
$\chi_{108}^{(40)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B
$\chi_{108}^{(41)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B
$\chi_{108}^{(42)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B
$\chi_{108}^{(43)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B
$\chi_{108}^{(44)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B
$\chi_{108}^{(45)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B

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$\chi_{108}^{(46)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B
$\chi_{108}^{(47)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B
$\chi_{108}^{(48)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B
$\chi_{108}^{(49)}$	4	4	4	4	4	4	-4	-4	-4	-4	-4	-4	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(50)}$	4	4	4	4	4	4	-4	-4	-4	-4	-4	-4	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(51)}$	4	4	4	4	4	4	-4	-4	-4	-4	-4	-4	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(52)}$	4	4	4	4	4	4	-4	-4	-4	-4	-4	-4	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(53)}$	4	4	4	-4	-4	-4	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(54)}$	4	4	4	-4	-4	-4	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(55)}$	4	4	4	-4	-4	-4	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(56)}$	4	4	4	-4	-4	-4	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(57)}$	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
$\chi_{108}^{(58)}$	4	4	4	-4	-4	-4	4	4	4	-4	-4	-4	4	4	4	-4	-4	-4	4	4	4	-4	-4	-4
$\chi_{108}^{(59)}$	4	C	/C	/C	4	C	-4	-C	-/C	-/C	-4	-C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(60)}$	4	/C	C	C	4	/C	-4	-/C	-C	-C	-4	-/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(61)}$	4	C	/C	/C	4	C	-4	-C	-/C	-/C	-4	-C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(62)}$	4	/C	C	C	4	/C	-4	-/C	-C	-C	-4	-/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(63)}$	4	C	/C	/C	4	C	-4	-C	-/C	-/C	-4	-C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(64)}$	4	/C	C	C	4	/C	-4	-/C	-C	-C	-4	-/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(65)}$	4	C	/C	/C	4	C	-4	-C	-/C	-/C	-4	-C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(66)}$	4	/C	C	C	4	/C	-4	-/C	-C	-C	-4	-/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(67)}$	4	C	/C	-/C	-4	-C	-4	-C	-/C	/C	4	C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(68)}$	4	/C	C	-C	-4	-/C	-4	-/C	-C	C	4	/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(69)}$	4	C	/C	-/C	-4	-C	-4	-C	-/C	/C	4	C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(70)}$	4	/C	C	-C	-4	-/C	-4	-/C	-C	C	4	/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(71)}$	4	C	/C	-/C	-4	-C	-4	-C	-/C	/C	4	C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(72)}$	4	/C	C	-C	-4	-/C	-4	-/C	-C	C	4	/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(73)}$	4	C	/C	-/C	-4	-C	-4	-C	-/C	/C	4	C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(74)}$	4	/C	C	-C	-4	-/C	-4	-/C	-C	C	4	/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(75)}$	4	C	/C	/C	4	C	4	C	/C	/C	4	C	4	C	/C	/C	4	C	4	C	/C	/C	4	C
$\chi_{108}^{(76)}$	4	/C	C	C	4	/C	4	/C	C	C	4	/C	4	/C	C	C	4	/C	4	/C	C	C	4	/C
$\chi_{108}^{(77)}$	4	C	/C	-/C	-4	-C	4	C	/C	-/C	-4	-C	4	C	/C	-/C	-4	-C	4	C	/C	-/C	-4	-C
$\chi_{108}^{(78)}$	4	/C	C	-C	-4	-/C	4	/C	C	-C	-4	-/C	4	/C	C	-C	-4	-/C	4	/C	C	-C	-4	-/C
$\chi_{108}^{(79)}$	6	6	6	6	6	6	6	6	6	6	6	6	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2
$\chi_{108}^{(80)}$	6	6	6	6	6	6	6	6	6	6	6	6	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2
$\chi_{108}^{(81)}$	6	6	6	-6	-6	-6	6	6	6	-6	-6	-6	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{108}^{(82)}$	6	6	6	-6	-6	-6	6	6	6	-6	-6	-6	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{108}^{(83)}$	6	D	/D	/D	6	D	6	D	/D	/D	6	D	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B
$\chi_{108}^{(84)}$	6	/D	D	D	6	/D	6	/D	D	D	6	/D	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B
$\chi_{108}^{(85)}$	6	D	/D	/D	6	D	6	D	/D	/D	6	D	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B
$\chi_{108}^{(86)}$	6	/D	D	D	6	/D	6	/D	D	D	6	/D	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B
$\chi_{108}^{(87)}$	6	D	/D	-/D	-6	-D	6	D	/D	-/D	-6	-D	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B
$\chi_{108}^{(88)}$	6	/D	D	-D	-6	-/D	6	/D	D	-D	-6	-/D	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B
$\chi_{108}^{(89)}$	6	D	/D	-/D	-6	-D	6	D	/D	-/D	-6	-D	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B
$\chi_{108}^{(90)}$	6	/D	D	-D	-6	-/D	6	/D	D	-D	-6	-/D	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B

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$\chi_{108}^{(91)}$	8	8	8	8	8	8	-8	-8	-8	-8	-8	-8	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(92)}$	8	8	8	8	8	8	-8	-8	-8	-8	-8	-8	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(93)}$	8	8	8	8	8	8	-8	-8	-8	-8	-8	-8	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(94)}$	8	8	8	8	8	8	-8	-8	-8	-8	-8	-8	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(95)}$	8	8	8	-8	-8	-8	-8	-8	-8	8	8	8	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(96)}$	8	8	8	-8	-8	-8	-8	-8	-8	8	8	8	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(97)}$	8	8	8	-8	-8	-8	-8	-8	-8	8	8	8	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(98)}$	8	8	8	-8	-8	-8	-8	-8	-8	8	8	8	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(99)}$	8	E	/E	/E	8	E	-8	-E	-/E	-/E	-8	-E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(100)}$	8	/E	E	E	8	/E	-8	-/E	-E	-E	-8	-/E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(101)}$	8	E	/E	/E	8	E	-8	-E	-/E	-/E	-8	-E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(102)}$	8	/E	E	E	8	/E	-8	-/E	-E	-E	-8	-/E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(103)}$	8	E	/E	/E	8	E	-8	-E	-/E	-/E	-8	-E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(104)}$	8	/E	E	E	8	/E	-8	-/E	-E	-E	-8	-/E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(105)}$	8	E	/E	/E	8	E	-8	-E	-/E	-/E	-8	-E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(106)}$	8	/E	E	E	8	/E	-8	-/E	-E	-E	-8	-/E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(107)}$	8	E	/E	-/E	-8	-E	-8	-E	-/E	/E	8	E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(108)}$	8	/E	E	-E	-8	-/E	-8	-/E	-E	E	8	/E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(109)}$	8	E	/E	-/E	-8	-E	-8	-E	-/E	/E	8	E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(110)}$	8	/E	E	-E	-8	-/E	-8	-/E	-E	E	8	/E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(111)}$	8	E	/E	-/E	-8	-E	-8	-E	-/E	/E	8	E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(112)}$	8	/E	E	-E	-8	-/E	-8	-/E	-E	E	8	/E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(113)}$	8	E	/E	-/E	-8	-E	-8	-E	-/E	/E	8	E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(114)}$	8	/E	E	-E	-8	-/E	-8	-/E	-E	E	8	/E	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(115)}$	9	9	9	9	9	9	9	9	9	9	9	9	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3
$\chi_{108}^{(116)}$	9	9	9	9	9	9	9	9	9	9	9	9	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3
$\chi_{108}^{(117)}$	9	9	9	9	9	9	9	9	9	9	9	9	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3
$\chi_{108}^{(118)}$	9	9	9	9	9	9	9	9	9	9	9	9	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3
$\chi_{108}^{(119)}$	9	9	9	-9	-9	-9	9	9	9	-9	-9	-9	1	1	1	-1	-1	-1	-3	-3	-3	3	3	3
$\chi_{108}^{(120)}$	9	9	9	-9	-9	-9	9	9	9	-9	-9	-9	1	1	1	-1	-1	-1	-3	-3	-3	3	3	3
$\chi_{108}^{(121)}$	9	9	9	-9	-9	-9	9	9	9	-9	-9	-9	1	1	1	-1	-1	-1	-3	-3	-3	3	3	3
$\chi_{108}^{(122)}$	9	9	9	-9	-9	-9	9	9	9	-9	-9	-9	1	1	1	-1	-1	-1	-3	-3	-3	3	3	3
$\chi_{108}^{(123)}$	9	F	/F	/F	9	F	9	F	/F	/F	9	F	1	A	/A	/A	1	A	-3	I	/I	/I	-3	I
$\chi_{108}^{(124)}$	9	/F	F	F	9	/F	9	/F	F	F	9	/F	1	/A	A	A	1	/A	-3	/I	I	I	-3	/I
$\chi_{108}^{(125)}$	9	F	/F	/F	9	F	9	F	/F	/F	9	F	1	A	/A	/A	1	A	-3	I	/I	/I	-3	I
$\chi_{108}^{(126)}$	9	/F	F	F	9	/F	9	/F	F	F	9	/F	1	/A	A	A	1	/A	-3	/I	I	I	-3	/I
$\chi_{108}^{(127)}$	9	F	/F	/F	9	F	9	F	/F	/F	9	F	1	A	/A	/A	1	A	-3	I	/I	/I	-3	I
$\chi_{108}^{(128)}$	9	/F	F	F	9	/F	9	/F	F	F	9	/F	1	/A	A	A	1	/A	-3	/I	I	I	-3	/I
$\chi_{108}^{(129)}$	9	F	/F	/F	9	F	9	F	/F	/F	9	F	1	A	/A	/A	1	A	-3	I	/I	/I	-3	I
$\chi_{108}^{(130)}$	9	/F	F	F	9	/F	9	/F	F	F	9	/F	1	/A	A	A	1	/A	-3	/I	I	I	-3	/I
$\chi_{108}^{(131)}$	9	F	/F	-/F	-9	-F	9	F	/F	-/F	-9	-F	1	A	/A	-/A	-1	-A	-3	I	/I	-/I	3	-I
$\chi_{108}^{(132)}$	9	/F	F	-F	-9	-/F	9	/F	F	-F	-9	-/F	1	/A	A	-A	-1	-/A	-3	/I	I	-I	3	-/I
$\chi_{108}^{(133)}$	9	F	/F	-/F	-9	-F	9	F	/F	-/F	-9	-F	1	A	/A	-/A	-1	-A	-3	I	/I	-/I	3	-I
$\chi_{108}^{(134)}$	9	/F	F	-F	-9	-/F	9	/F	F	-F	-9	-/F	1	/A	A	-A	-1	-/A	-3	/I	I	-I	3	-/I
$\chi_{108}^{(135)}$	9	F	/F	-/F	-9	-F	9	F	/F	-/F	-9	-F	1	A	/A	-/A	-1	-A	-3	I	/I	-/I	3	-I

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$\chi_{108}^{(136)}$	9	/F	F	-F	-9	-/F	9	/F	F	-F	-9	-/F	1	/A	A	-A	-1	-/A	-3	/I	I	-I	3	-/I
$\chi_{108}^{(137)}$	9	F	/F	-/F	-9	-F	9	F	/F	-/F	-9	-F	1	A	/A	-/A	-1	-A	-3	I	/I	-/I	3	-I
$\chi_{108}^{(138)}$	9	/F	F	-F	-9	-/F	9	/F	F	-F	-9	-/F	1	/A	A	-A	-1	-/A	-3	/I	I	-I	3	-/I
$\chi_{108}^{(139)}$	12	12	12	12	12	12	12	12	12	12	12	12	-4	-4	-4	-4	-4	-4	4	4	4	4	4	4
$\chi_{108}^{(140)}$	12	12	12	-12	-12	-12	12	12	12	-12	-12	-12	-4	-4	-4	4	4	4	4	4	4	-4	-4	-4
$\chi_{108}^{(141)}$	12	G	/G	/G	12	G	12	G	/G	/G	12	G	-4	-C	-/C	-/C	-4	-C	4	C	/C	/C	4	C
$\chi_{108}^{(142)}$	12	/G	G	G	12	/G	12	/G	G	G	12	/G	-4	-/C	-C	-C	-4	-/C	4	/C	C	C	4	/C
$\chi_{108}^{(143)}$	12	G	/G	-/G	-12	-G	12	G	/G	-/G	-12	-G	-4	-C	-/C	/C	4	C	4	C	/C	-/C	-4	-C
$\chi_{108}^{(144)}$	12	/G	G	-G	-12	-/G	12	/G	G	-G	-12	-/G	-4	-/C	-C	C	4	/C	4	/C	C	-C	-4	-/C
$\chi_{108}^{(145)}$	16	16	16	16	16	16	-16	-16	-16	-16	-16	-16	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(146)}$	16	16	16	-16	-16	-16	-16	-16	-16	16	16	16	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(147)}$	16	H	/H	/H	16	H	-16	-H	-/H	-/H	-16	-H	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(148)}$	16	/H	H	H	16	/H	-16	-/H	-H	-H	-16	-/H	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(149)}$	16	H	/H	-/H	-16	-H	-16	-H	-/H	/H	16	H	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(150)}$	16	/H	H	-H	-16	-/H	-16	-/H	-H	H	16	/H	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{108}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(2)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1
$\chi_{108}^{(3)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1
$\chi_{108}^{(4)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{108}^{(5)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{108}^{(6)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{108}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{108}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(9)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	
$\chi_{108}^{(10)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	
$\chi_{108}^{(11)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	
$\chi_{108}^{(12)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	
$\chi_{108}^{(13)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	
$\chi_{108}^{(14)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	
$\chi_{108}^{(15)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	
$\chi_{108}^{(16)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	
$\chi_{108}^{(17)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	
$\chi_{108}^{(18)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	
$\chi_{108}^{(19)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	
$\chi_{108}^{(20)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	
$\chi_{108}^{(21)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	
$\chi_{108}^{(22)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	
$\chi_{108}^{(23)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	
$\chi_{108}^{(24)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	
$\chi_{108}^{(25)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	
$\chi_{108}^{(26)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	
$\chi_{108}^{(27)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	
$\chi_{108}^{(28)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	
$\chi_{108}^{(29)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
$\chi_{108}^{(30)}$	2	2	2	2	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	

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$\chi_{108}^{(31)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2
$\chi_{108}^{(32)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2
$\chi_{108}^{(33)}$	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(34)}$	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(35)}$	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(36)}$	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(37)}$	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(38)}$	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(39)}$	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(40)}$	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(41)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B
$\chi_{108}^{(42)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B
$\chi_{108}^{(43)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B
$\chi_{108}^{(44)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B
$\chi_{108}^{(45)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	-2	-B	-/B	/B	2	B
$\chi_{108}^{(46)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-2	-/B	-B	B	2	/B
$\chi_{108}^{(47)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B
$\chi_{108}^{(48)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B
$\chi_{108}^{(49)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2
$\chi_{108}^{(50)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
$\chi_{108}^{(51)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2
$\chi_{108}^{(52)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2
$\chi_{108}^{(53)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2
$\chi_{108}^{(54)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{108}^{(55)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2
$\chi_{108}^{(56)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{108}^{(57)}$	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(58)}$	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(59)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B
$\chi_{108}^{(60)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B
$\chi_{108}^{(61)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B
$\chi_{108}^{(62)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B
$\chi_{108}^{(63)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B
$\chi_{108}^{(64)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B
$\chi_{108}^{(65)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B
$\chi_{108}^{(66)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B
$\chi_{108}^{(67)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B
$\chi_{108}^{(68)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B
$\chi_{108}^{(69)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B
$\chi_{108}^{(70)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B
$\chi_{108}^{(71)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B
$\chi_{108}^{(72)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B
$\chi_{108}^{(73)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B
$\chi_{108}^{(74)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B
$\chi_{108}^{(75)}$	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{108}^{(76)}$	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(77)}$	-2	-B	-/B	/B	2	B	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(78)}$	-2	-/B	-B	B	2	/B	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(79)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(80)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(81)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(85)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(86)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(87)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(88)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(89)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(90)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(91)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-4	-4	-4	-4	-4	-4	4	4	4	4	4	4
$\chi_{108}^{(92)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	4	4	4	4	4	4	-4	-4	-4	-4	-4	-4
$\chi_{108}^{(93)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(94)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(95)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	4	4	4	-4	-4	-4	-4	-4	-4	4	4	4
$\chi_{108}^{(96)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-4	-4	-4	4	4	4	4	4	4	-4	-4	-4
$\chi_{108}^{(97)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(98)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(99)}$	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	-4	-C	-/C	-/C	-4	-C	4	C	/C	/C	4	C
$\chi_{108}^{(100)}$	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	-4	-/C	-C	-C	-4	-/C	4	/C	C	C	4	/C
$\chi_{108}^{(101)}$	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	4	C	/C	/C	4	C	-4	-C	-/C	-/C	-4	-C
$\chi_{108}^{(102)}$	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	4	/C	C	C	4	/C	-4	-/C	-C	-C	-4	-/C
$\chi_{108}^{(103)}$	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(104)}$	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(105)}$	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(106)}$	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(107)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	4	C	/C	-/C	-4	-C	-4	-C	-/C	/C	4	C
$\chi_{108}^{(108)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	4	/C	C	-C	-4	-/C	-4	-/C	-C	C	4	/C
$\chi_{108}^{(109)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	-4	-C	-/C	/C	4	C	4	C	/C	-/C	-4	-C
$\chi_{108}^{(110)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-4	-/C	-C	C	4	/C	4	/C	C	-C	-4	-/C
$\chi_{108}^{(111)}$	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(112)}$	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(113)}$	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(114)}$	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(115)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
$\chi_{108}^{(116)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	3	3	3	3	3	3	3	3	3
$\chi_{108}^{(117)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
$\chi_{108}^{(118)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	3	3	3	3	3	3	3	3	3
$\chi_{108}^{(119)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3
$\chi_{108}^{(120)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	3	3	3	-3	-3	-3	3	3	3

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$\chi_{108}^{(121)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3
$\chi_{108}^{(122)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	3	3	3	-3	-3	-3	3	3	3
$\chi_{108}^{(123)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	I	/I	/I	-3	I	-3	I	/I	/I	-3	I
$\chi_{108}^{(124)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	/I	I	I	-3	/I	-3	/I	I	I	-3	/I
$\chi_{108}^{(125)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	-I	-/I	-/I	3	-I	3	-I	-/I	-/I	3	-I
$\chi_{108}^{(126)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	-/I	-I	-I	3	-/I	3	-/I	-I	-I	3	-/I
$\chi_{108}^{(127)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	I	/I	/I	-3	I	-3	I	/I	/I	-3	I
$\chi_{108}^{(128)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	/I	I	I	-3	/I	-3	/I	I	I	-3	/I
$\chi_{108}^{(129)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	-I	-/I	-/I	3	-I	3	-I	-/I	-/I	3	-I
$\chi_{108}^{(130)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	-/I	-I	-I	3	-/I	3	-/I	-I	-I	3	-/I
$\chi_{108}^{(131)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	-I	-/I	/I	-3	I	3	-I	-/I	/I	-3	I
$\chi_{108}^{(132)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	-/I	-I	I	-3	/I	3	-/I	-I	I	-3	/I
$\chi_{108}^{(133)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	I	/I	-/I	3	-I	-3	I	/I	-/I	3	-I
$\chi_{108}^{(134)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	/I	I	-I	3	-/I	-3	/I	I	-I	3	-/I
$\chi_{108}^{(135)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	-I	-/I	/I	-3	I	3	-I	-/I	/I	-3	I
$\chi_{108}^{(136)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	-/I	-I	I	-3	/I	3	-/I	-I	I	-3	/I
$\chi_{108}^{(137)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	I	/I	-/I	3	-I	-3	I	/I	-/I	3	-I
$\chi_{108}^{(138)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	/I	I	-I	3	-/I	-3	/I	I	-I	3	-/I
$\chi_{108}^{(139)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(140)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(141)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(142)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(143)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(144)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(145)}$	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(146)}$	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(147)}$	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(148)}$	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(149)}$	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(150)}$	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{108}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(2)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{108}^{(3)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{108}^{(4)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{108}^{(5)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{108}^{(6)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(7)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(9)}$	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1
$\chi_{108}^{(10)}$	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1
$\chi_{108}^{(11)}$	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1
$\chi_{108}^{(12)}$	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1
$\chi_{108}^{(13)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1
$\chi_{108}^{(14)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1
$\chi_{108}^{(15)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1

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$\chi_{108}^{(16)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1
$\chi_{108}^{(17)}$	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1
$\chi_{108}^{(18)}$	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1
$\chi_{108}^{(19)}$	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1
$\chi_{108}^{(20)}$	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1
$\chi_{108}^{(21)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1
$\chi_{108}^{(22)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1
$\chi_{108}^{(23)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1
$\chi_{108}^{(24)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1
$\chi_{108}^{(25)}$	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1
$\chi_{108}^{(26)}$	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1
$\chi_{108}^{(27)}$	.	.	.	.	.	.	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1	-1	-1	1	1
$\chi_{108}^{(28)}$	.	.	.	.	.	.	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1	-1	-1	1	1
$\chi_{108}^{(29)}$	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(30)}$	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(31)}$	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1
$\chi_{108}^{(32)}$	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1
$\chi_{108}^{(33)}$	.	.	.	.	.	.	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1	-A	-/A	-/A	-1
$\chi_{108}^{(34)}$	.	.	.	.	.	.	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1	-/A	-A	-A	-1
$\chi_{108}^{(35)}$	.	.	.	.	.	.	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1	-A	-/A	-/A	-1
$\chi_{108}^{(36)}$	.	.	.	.	.	.	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1	-/A	-A	-A	-1
$\chi_{108}^{(37)}$	.	.	.	.	.	.	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1
$\chi_{108}^{(38)}$	.	.	.	.	.	.	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1	-/A	-A	A	1
$\chi_{108}^{(39)}$	.	.	.	.	.	.	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1
$\chi_{108}^{(40)}$	.	.	.	.	.	.	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1	-/A	-A	A	1
$\chi_{108}^{(41)}$	2	B	/B	/B	2	B	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1
$\chi_{108}^{(42)}$	2	/B	B	B	2	/B	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1
$\chi_{108}^{(43)}$	-2	-B	-/B	-/B	-2	-B	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1
$\chi_{108}^{(44)}$	-2	-/B	-B	-B	-2	-/B	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1
$\chi_{108}^{(45)}$	-2	-B	-/B	/B	2	B	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1
$\chi_{108}^{(46)}$	-2	-/B	-B	B	2	/B	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1
$\chi_{108}^{(47)}$	2	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1
$\chi_{108}^{(48)}$	2	/B	B	-B	-2	-/B	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1
$\chi_{108}^{(49)}$	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	.	.	.	.	.
$\chi_{108}^{(50)}$	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	.	.	.	.	.
$\chi_{108}^{(51)}$	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	.	.	.	.	.
$\chi_{108}^{(52)}$	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	.	.	.	.	.
$\chi_{108}^{(53)}$	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	.	.	.	.	.
$\chi_{108}^{(54)}$	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	.	.	.	.	.
$\chi_{108}^{(55)}$	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	.	.	.	.	.
$\chi_{108}^{(56)}$	.	.	.	.	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	.	.	.	.	.
$\chi_{108}^{(57)}$	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	1
$\chi_{108}^{(58)}$	.	.	.	.	.	.	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	1	1	1	-1	-1
$\chi_{108}^{(59)}$	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.
$\chi_{108}^{(60)}$	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.

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$\chi_{108}^{(61)}$	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.
$\chi_{108}^{(62)}$	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.
$\chi_{108}^{(63)}$	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.
$\chi_{108}^{(64)}$	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.
$\chi_{108}^{(65)}$	.	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.
$\chi_{108}^{(66)}$	.	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.
$\chi_{108}^{(67)}$	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	.	.	.	.	.
$\chi_{108}^{(68)}$	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	.	.	.	.	.
$\chi_{108}^{(69)}$	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	.	.	.	.	.
$\chi_{108}^{(70)}$	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	.	.	.	.	.
$\chi_{108}^{(71)}$	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	.	.	.	.	.
$\chi_{108}^{(72)}$	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	.	.	.	.	.
$\chi_{108}^{(73)}$	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	.	.	.	.	.
$\chi_{108}^{(74)}$	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	.	.	.	.	.
$\chi_{108}^{(75)}$	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	1	A	/A	/A	1
$\chi_{108}^{(76)}$	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	1	/A	A	A	1
$\chi_{108}^{(77)}$	.	.	.	.	.	.	-2	-B	-/B	/B	2	B	-2	-B	-/B	/B	2	B	1	A	/A	-/A	-1
$\chi_{108}^{(78)}$	.	.	.	.	.	.	-2	-/B	-B	B	2	/B	-2	-/B	-B	B	2	/B	1	/A	A	-A	-1
$\chi_{108}^{(79)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1
$\chi_{108}^{(80)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1
$\chi_{108}^{(81)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1
$\chi_{108}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1
$\chi_{108}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1
$\chi_{108}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1
$\chi_{108}^{(85)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1
$\chi_{108}^{(86)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1
$\chi_{108}^{(87)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1
$\chi_{108}^{(88)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1
$\chi_{108}^{(89)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1
$\chi_{108}^{(90)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1
$\chi_{108}^{(91)}$	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.
$\chi_{108}^{(92)}$	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.
$\chi_{108}^{(93)}$	.	.	.	.	.	.	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.
$\chi_{108}^{(94)}$	.	.	.	.	.	.	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.
$\chi_{108}^{(95)}$	.	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	.	.	.	.	.
$\chi_{108}^{(96)}$	.	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	.	.	.	.	.
$\chi_{108}^{(97)}$	.	.	.	.	.	.	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.
$\chi_{108}^{(98)}$	.	.	.	.	.	.	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.
$\chi_{108}^{(99)}$	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	.	.	.	.	.
$\chi_{108}^{(100)}$	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	.	.	.	.	.
$\chi_{108}^{(101)}$	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	.	.	.	.	.
$\chi_{108}^{(102)}$	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	.	.	.	.	.
$\chi_{108}^{(103)}$	.	.	.	.	.	.	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.
$\chi_{108}^{(104)}$	.	.	.	.	.	.	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.
$\chi_{108}^{(105)}$	.	.	.	.	.	.	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.

	50						60																70
$\chi_{108}^{(106)}$	.	.	.	.	.	.	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.
$\chi_{108}^{(107)}$	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	.	.	.	.	.
$\chi_{108}^{(108)}$	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	.	.	.	.	.
$\chi_{108}^{(109)}$	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	.	.	.	.	.
$\chi_{108}^{(110)}$	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	.	.	.	.	.
$\chi_{108}^{(111)}$	.	.	.	.	.	.	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.
$\chi_{108}^{(112)}$	.	.	.	.	.	.	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.	.	.	.
$\chi_{108}^{(113)}$	.	.	.	.	.	.	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.
$\chi_{108}^{(114)}$	.	.	.	.	.	.	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.	.	.	.
$\chi_{108}^{(115)}$	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(116)}$	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(117)}$	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(118)}$	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(119)}$	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(120)}$	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(121)}$	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(122)}$	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(123)}$	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(124)}$	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(125)}$	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(126)}$	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(127)}$	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(128)}$	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(129)}$	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(130)}$	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(131)}$	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(132)}$	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(133)}$	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(134)}$	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(135)}$	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(136)}$	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(137)}$	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(138)}$	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(139)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1
$\chi_{108}^{(140)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1
$\chi_{108}^{(141)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1
$\chi_{108}^{(142)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1
$\chi_{108}^{(143)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1
$\chi_{108}^{(144)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1
$\chi_{108}^{(145)}$	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	.	.	.	.	.
$\chi_{108}^{(146)}$	.	.	.	.	.	.	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.	.	.	.
$\chi_{108}^{(147)}$	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B	.	.	.	.	.
$\chi_{108}^{(148)}$	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B	.	.	.	.	.
$\chi_{108}^{(149)}$	.	.	.	.	.	.	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	.	.	.	.	.
$\chi_{108}^{(150)}$	.	.	.	.	.	.	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	.	.	.	.	.

	80																		90			
$\chi_{108}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(2)}$	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(3)}$	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(4)}$	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{108}^{(5)}$	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{108}^{(6)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(9)}$	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A
$\chi_{108}^{(10)}$	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A
$\chi_{108}^{(11)}$	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A
$\chi_{108}^{(12)}$	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A
$\chi_{108}^{(13)}$	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A
$\chi_{108}^{(14)}$	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A
$\chi_{108}^{(15)}$	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A
$\chi_{108}^{(16)}$	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A
$\chi_{108}^{(17)}$	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A
$\chi_{108}^{(18)}$	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A
$\chi_{108}^{(19)}$	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A
$\chi_{108}^{(20)}$	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A
$\chi_{108}^{(21)}$	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A
$\chi_{108}^{(22)}$	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A
$\chi_{108}^{(23)}$	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A
$\chi_{108}^{(24)}$	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A
$\chi_{108}^{(25)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(26)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(27)}$	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(28)}$	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(29)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(30)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(31)}$	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1
$\chi_{108}^{(32)}$	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(33)}$	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(34)}$	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(35)}$	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(36)}$	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(37)}$	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(38)}$	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(39)}$	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(40)}$	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(41)}$	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A
$\chi_{108}^{(42)}$	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A
$\chi_{108}^{(43)}$	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A
$\chi_{108}^{(44)}$	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A
$\chi_{108}^{(45)}$	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A

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$\chi_{108}^{(46)}$	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A
$\chi_{108}^{(47)}$	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A
$\chi_{108}^{(48)}$	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A
$\chi_{108}^{(49)}$	.	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{108}^{(50)}$	.	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	1	1	1	1	1	1	-1	-1	-1
$\chi_{108}^{(51)}$	.	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{108}^{(52)}$	.	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	1	1	1	1	1	1	-1	-1	-1
$\chi_{108}^{(53)}$	.	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(54)}$	.	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	1	1	1
$\chi_{108}^{(55)}$	.	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(56)}$	.	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	1	1	1
$\chi_{108}^{(57)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(58)}$	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(59)}$	.	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	-1	-A	-/A	-/A	-1	-A	1	A	/A
$\chi_{108}^{(60)}$	.	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	-1	-/A	-A	-A	-1	-/A	1	/A	A
$\chi_{108}^{(61)}$	.	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	1	A	/A	/A	1	A	-1	-A	-/A
$\chi_{108}^{(62)}$	.	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	1	/A	A	A	1	/A	-1	-/A	-A
$\chi_{108}^{(63)}$	.	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	-1	-A	-/A	-/A	-1	-A	1	A	/A
$\chi_{108}^{(64)}$	.	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	-1	-/A	-A	-A	-1	-/A	1	/A	A
$\chi_{108}^{(65)}$	.	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	1	A	/A	/A	1	A	-1	-A	-/A
$\chi_{108}^{(66)}$	.	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	1	/A	A	A	1	/A	-1	-/A	-A
$\chi_{108}^{(67)}$	.	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	1	A	/A	-/A	-1	-A	-1	-A	-/A
$\chi_{108}^{(68)}$	.	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	1	/A	A	-A	-1	-/A	-1	-/A	-A
$\chi_{108}^{(69)}$	.	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	-1	-A	-/A	/A	1	A	1	A	/A
$\chi_{108}^{(70)}$	.	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-1	-/A	-A	A	1	/A	1	/A	A
$\chi_{108}^{(71)}$	.	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	1	A	/A	-/A	-1	-A	-1	-A	-/A
$\chi_{108}^{(72)}$	.	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	1	/A	A	-A	-1	-/A	-1	-/A	-A
$\chi_{108}^{(73)}$	.	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	-1	-A	-/A	/A	1	A	1	A	/A
$\chi_{108}^{(74)}$	.	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-1	-/A	-A	A	1	/A	1	/A	A
$\chi_{108}^{(75)}$	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(76)}$	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(77)}$	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(78)}$	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(79)}$	-1	3	3	3	3	3	3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(80)}$	-1	3	3	3	3	3	3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(81)}$	1	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(82)}$	1	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(83)}$	-A	3	-I	-/I	-/I	3	-I	3	-I	-/I	-/I	3	-I	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(84)}$	-/A	3	-/I	-I	-I	3	-/I	3	-/I	-I	-I	3	-/I	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(85)}$	-A	3	-I	-/I	-/I	3	-I	3	-I	-/I	-/I	3	-I	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(86)}$	-/A	3	-/I	-I	-I	3	-/I	3	-/I	-I	-I	3	-/I	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(87)}$	A	3	-I	-/I	/I	-3	I	3	-I	-/I	/I	-3	I	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(88)}$	/A	3	-/I	-I	I	-3	/I	3	-/I	-I	I	-3	/I	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(89)}$	A	3	-I	-/I	/I	-3	I	3	-I	-/I	/I	-3	I	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(90)}$	/A	3	-/I	-I	I	-3	/I	3	-/I	-I	I	-3	/I	.	.	.	.	.	.	.	.	.

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$\chi_{108}^{(91)}$	.	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	1	1	1	1	1	1	-1	-1	-1
$\chi_{108}^{(92)}$	.	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{108}^{(93)}$	.	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(94)}$	.	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(95)}$	.	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	1	1	1
$\chi_{108}^{(96)}$	.	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(97)}$	.	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(98)}$	.	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(99)}$	.	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B	1	A	/A	/A	1	A	-1	-A	-/A
$\chi_{108}^{(100)}$	.	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B	1	/A	A	A	1	/A	-1	-/A	-A
$\chi_{108}^{(101)}$	.	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B	-1	-A	-/A	-/A	-1	-A	1	A	/A
$\chi_{108}^{(102)}$	.	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B	-1	-/A	-A	-A	-1	-/A	1	/A	A
$\chi_{108}^{(103)}$	.	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(104)}$	.	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(105)}$	.	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(106)}$	.	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(107)}$	.	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1	A	1	A	/A
$\chi_{108}^{(108)}$	.	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	-1	-/A	-A	A	1	/A	1	/A	A
$\chi_{108}^{(109)}$	.	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	1	A	/A	-/A	-1	-A	-1	-A	-/A
$\chi_{108}^{(110)}$	.	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	1	/A	A	-A	-1	-/A	-1	-/A	-A
$\chi_{108}^{(111)}$	.	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(112)}$	.	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(113)}$	.	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(114)}$	.	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(115)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(116)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(117)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(118)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(119)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(120)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(121)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(122)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(123)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(124)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(125)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(126)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(127)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(128)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(129)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(130)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(131)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(132)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(133)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(134)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(135)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{108}^{(136)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(137)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(138)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(139)}$	1	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(140)}$	-1	-3	-3	-3	3	3	3	-3	-3	-3	3	3	3	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(141)}$	A	-3	I	/I	/I	-3	I	-3	I	/I	/I	-3	I	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(142)}$	/A	-3	/I	I	I	-3	/I	-3	/I	I	I	-3	/I	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(143)}$	-A	-3	I	/I	-/I	3	-I	-3	I	/I	-/I	3	-I	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(144)}$	-/A	-3	/I	I	-I	3	-/I	-3	/I	I	-I	3	-/I	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(145)}$	.	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(146)}$	.	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(147)}$	.	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(148)}$	.	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(149)}$	.	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(150)}$	.	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	.	.	.	.

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$\chi_{108}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(2)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(3)}$	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{108}^{(4)}$	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(5)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{108}^{(6)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(7)}$	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(8)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(9)}$	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A
$\chi_{108}^{(10)}$	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A
$\chi_{108}^{(11)}$	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A
$\chi_{108}^{(12)}$	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A
$\chi_{108}^{(13)}$	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A
$\chi_{108}^{(14)}$	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A
$\chi_{108}^{(15)}$	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A
$\chi_{108}^{(16)}$	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A
$\chi_{108}^{(17)}$	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A
$\chi_{108}^{(18)}$	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A
$\chi_{108}^{(19)}$	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A
$\chi_{108}^{(20)}$	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A
$\chi_{108}^{(21)}$	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A
$\chi_{108}^{(22)}$	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A
$\chi_{108}^{(23)}$	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A
$\chi_{108}^{(24)}$	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A
$\chi_{108}^{(25)}$	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1
$\chi_{108}^{(26)}$	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1
$\chi_{108}^{(27)}$	.	.	.	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1	-1	-1
$\chi_{108}^{(28)}$	.	.	.	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	1	1	1
$\chi_{108}^{(29)}$	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(30)}$	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{108}^{(31)}$	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(32)}$	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(33)}$	.	.	.	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1	-A	-/A
$\chi_{108}^{(34)}$	.	.	.	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1	-/A	-A
$\chi_{108}^{(35)}$	.	.	.	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	1	A	/A
$\chi_{108}^{(36)}$	.	.	.	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	1	/A	A
$\chi_{108}^{(37)}$	.	.	.	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1	-A	-/A
$\chi_{108}^{(38)}$	.	.	.	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1	-/A	-A
$\chi_{108}^{(39)}$	.	.	.	-2	-B	-/B	/B	2	B	-2	-B	-/B	/B	2	B	-2	-B	-/B	/B	2	B	1	A	/A
$\chi_{108}^{(40)}$	.	.	.	-2	-/B	-B	B	2	/B	-2	-/B	-B	B	2	/B	-2	-/B	-B	B	2	/B	1	/A	A
$\chi_{108}^{(41)}$	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(42)}$	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(43)}$	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(44)}$	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(45)}$	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(46)}$	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(47)}$	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(48)}$	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(49)}$	1	1	1	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	.	.	.	.	.	.	-1	-1	-1
$\chi_{108}^{(50)}$	-1	-1	-1	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	.	.	.	.	.	.	-1	-1	-1
$\chi_{108}^{(51)}$	1	1	1	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	1	1	1
$\chi_{108}^{(52)}$	-1	-1	-1	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	1	1	1
$\chi_{108}^{(53)}$	1	1	1	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.	.	.	.	.	-1	-1	-1
$\chi_{108}^{(54)}$	-1	-1	-1	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.	.	.	.	.	-1	-1	-1
$\chi_{108}^{(55)}$	1	1	1	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	.	1	1	1
$\chi_{108}^{(56)}$	-1	-1	-1	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	.	1	1	1
$\chi_{108}^{(57)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(58)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(59)}$	/A	1	A	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B	.	.	.	.	.	.	-1	-A	-/A
$\chi_{108}^{(60)}$	A	1	/A	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B	.	.	.	.	.	.	-1	-/A	-A
$\chi_{108}^{(61)}$	-/A	-1	-A	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B	.	.	.	.	.	.	-1	-A	-/A
$\chi_{108}^{(62)}$	-A	-1	-/A	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B	.	.	.	.	.	.	-1	-/A	-A
$\chi_{108}^{(63)}$	/A	1	A	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	1	A	/A
$\chi_{108}^{(64)}$	A	1	/A	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	1	/A	A
$\chi_{108}^{(65)}$	-/A	-1	-A	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	1	A	/A
$\chi_{108}^{(66)}$	-A	-1	-/A	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	1	/A	A
$\chi_{108}^{(67)}$	/A	1	A	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	-1	-A	-/A
$\chi_{108}^{(68)}$	A	1	/A	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	-1	-/A	-A
$\chi_{108}^{(69)}$	-/A	-1	-A	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	-1	-A	-/A
$\chi_{108}^{(70)}$	-A	-1	-/A	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	-1	-/A	-A
$\chi_{108}^{(71)}$	/A	1	A	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	1	A	/A
$\chi_{108}^{(72)}$	A	1	/A	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	1	/A	A
$\chi_{108}^{(73)}$	-/A	-1	-A	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	1	A	/A
$\chi_{108}^{(74)}$	-A	-1	-/A	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	1	/A	A
$\chi_{108}^{(75)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{108}^{(76)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(77)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(78)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(79)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(80)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(81)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(85)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(86)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(87)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(88)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(89)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(90)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(91)}$	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(92)}$	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(93)}$	.	.	.	-4	-4	-4	-4	-4	-4	4	4	4	4	4	4	.	.	.	.	.	.	1	1	1
$\chi_{108}^{(94)}$	.	.	.	4	4	4	4	4	4	-4	-4	-4	-4	-4	-4	.	.	.	.	.	.	-1	-1	-1
$\chi_{108}^{(95)}$	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(96)}$	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(97)}$	.	.	.	-4	-4	-4	4	4	4	4	4	4	-4	-4	-4	.	.	.	.	.	.	1	1	1
$\chi_{108}^{(98)}$	.	.	.	4	4	4	-4	-4	-4	-4	-4	-4	4	4	4	.	.	.	.	.	.	-1	-1	-1
$\chi_{108}^{(99)}$	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(100)}$	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(101)}$	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(102)}$	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(103)}$	.	.	.	-4	-C	-/C	-/C	-4	-C	4	C	/C	/C	4	C	.	.	.	.	.	.	1	A	/A
$\chi_{108}^{(104)}$	.	.	.	-4	-/C	-C	-C	-4	-/C	4	/C	C	C	4	/C	.	.	.	.	.	.	1	/A	A
$\chi_{108}^{(105)}$	.	.	.	4	C	/C	/C	4	C	-4	-C	-/C	-/C	-4	-C	.	.	.	.	.	.	-1	-A	-/A
$\chi_{108}^{(106)}$	.	.	.	4	/C	C	C	4	/C	-4	-/C	-C	-C	-4	-/C	.	.	.	.	.	.	-1	-/A	-A
$\chi_{108}^{(107)}$	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(108)}$	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(109)}$	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(110)}$	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(111)}$	.	.	.	-4	-C	-/C	/C	4	C	4	C	/C	-/C	-4	-C	.	.	.	.	.	.	1	A	/A
$\chi_{108}^{(112)}$	.	.	.	-4	-/C	-C	C	4	/C	4	/C	C	-C	-4	-/C	.	.	.	.	.	.	1	/A	A
$\chi_{108}^{(113)}$	.	.	.	4	C	/C	-/C	-4	-C	-4	-C	-/C	/C	4	C	.	.	.	.	.	.	-1	-A	-/A
$\chi_{108}^{(114)}$	.	.	.	4	/C	C	-C	-4	-/C	-4	-/C	-C	C	4	/C	.	.	.	.	.	.	-1	-/A	-A
$\chi_{108}^{(115)}$	.	.	.	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1	.	.	.
$\chi_{108}^{(116)}$	.	.	.	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1	.	.	.
$\chi_{108}^{(117)}$	.	.	.	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.
$\chi_{108}^{(118)}$	.	.	.	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.
$\chi_{108}^{(119)}$	.	.	.	-3	-3	-3	3	3	3	-3	-3	-3	3	3	3	1	1	1	-1	-1	-1	.	.	.
$\chi_{108}^{(120)}$	.	.	.	-3	-3	-3	3	3	3	-3	-3	-3	3	3	3	1	1	1	-1	-1	-1	.	.	.

	100																								
$\chi_{108}^{(121)}$	.	.	.	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.
$\chi_{108}^{(122)}$	.	.	.	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	.	.	.
$\chi_{108}^{(123)}$	.	.	.	-3	I	/I	/I	-3	I	-3	I	/I	/I	-3	I	1	A	/A	/A	1	A	.	.	.
$\chi_{108}^{(124)}$	.	.	.	-3	/I	I	I	-3	/I	-3	/I	I	I	-3	/I	1	/A	A	A	1	/A	.	.	.
$\chi_{108}^{(125)}$	.	.	.	-3	I	/I	/I	-3	I	-3	I	/I	/I	-3	I	1	A	/A	/A	1	A	.	.	.
$\chi_{108}^{(126)}$	.	.	.	-3	/I	I	I	-3	/I	-3	/I	I	I	-3	/I	1	/A	A	A	1	/A	.	.	.
$\chi_{108}^{(127)}$	.	.	.	3	-I	-/I	-/I	3	-I	3	-I	-/I	-/I	3	-I	-1	-A	-/A	-/A	-1	-A	.	.	.
$\chi_{108}^{(128)}$	.	.	.	3	-/I	-I	-I	3	-/I	3	-/I	-I	-I	3	-/I	-1	-/A	-A	-A	-1	-/A	.	.	.
$\chi_{108}^{(129)}$	.	.	.	3	-I	-/I	-/I	3	-I	3	-I	-/I	-/I	3	-I	-1	-A	-/A	-/A	-1	-A	.	.	.
$\chi_{108}^{(130)}$	.	.	.	3	-/I	-I	-I	3	-/I	3	-/I	-I	-I	3	-/I	-1	-/A	-A	-A	-1	-/A	.	.	.
$\chi_{108}^{(131)}$	.	.	.	-3	I	/I	-/I	3	-I	-3	I	/I	-/I	3	-I	1	A	/A	-/A	-1	-A	.	.	.
$\chi_{108}^{(132)}$	.	.	.	-3	/I	I	-I	3	-/I	-3	/I	I	-I	3	-/I	1	/A	A	-A	-1	-/A	.	.	.
$\chi_{108}^{(133)}$	.	.	.	-3	I	/I	-/I	3	-I	-3	I	/I	-/I	3	-I	1	A	/A	-/A	-1	-A	.	.	.
$\chi_{108}^{(134)}$	.	.	.	-3	/I	I	-I	3	-/I	-3	/I	I	-I	3	-/I	1	/A	A	-A	-1	-/A	.	.	.
$\chi_{108}^{(135)}$	.	.	.	3	-I	-/I	/I	-3	I	3	-I	-/I	/I	-3	I	-1	-A	-/A	/A	1	A	.	.	.
$\chi_{108}^{(136)}$	.	.	.	3	-/I	-I	I	-3	/I	3	-/I	-I	I	-3	/I	-1	-/A	-A	A	1	/A	.	.	.
$\chi_{108}^{(137)}$	.	.	.	3	-I	-/I	/I	-3	I	3	-I	-/I	/I	-3	I	-1	-A	-/A	/A	1	A	.	.	.
$\chi_{108}^{(138)}$	.	.	.	3	-/I	-I	I	-3	/I	3	-/I	-I	I	-3	/I	-1	-/A	-A	A	1	/A	.	.	.
$\chi_{108}^{(139)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(140)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(141)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(142)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(143)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(144)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(145)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(146)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(147)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(148)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(149)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(150)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

	120												130											140
$\chi_{108}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(2)}$	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	
$\chi_{108}^{(3)}$	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	
$\chi_{108}^{(4)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	
$\chi_{108}^{(5)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	
$\chi_{108}^{(6)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{108}^{(7)}$	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{108}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{108}^{(9)}$	/A	1	A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	
$\chi_{108}^{(10)}$	A	1	/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	
$\chi_{108}^{(11)}$	-/A	-1	-A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	
$\chi_{108}^{(12)}$	-A	-1	-/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	
$\chi_{108}^{(13)}$	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	
$\chi_{108}^{(14)}$	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	
$\chi_{108}^{(15)}$	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	

	120												130										140
$\chi_{108}^{(16)}$	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A
$\chi_{108}^{(17)}$	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A
$\chi_{108}^{(18)}$	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A
$\chi_{108}^{(19)}$	/A	1	A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A
$\chi_{108}^{(20)}$	A	1	/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A
$\chi_{108}^{(21)}$	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A
$\chi_{108}^{(22)}$	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A
$\chi_{108}^{(23)}$	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A
$\chi_{108}^{(24)}$	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A
$\chi_{108}^{(25)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(26)}$	1	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(27)}$	1	1	1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(28)}$	-1	-1	-1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(29)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(30)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(31)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(32)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(33)}$	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(34)}$	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(35)}$	/A	1	A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(36)}$	A	1	/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(37)}$	/A	1	A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(38)}$	A	1	/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(39)}$	-/A	-1	-A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(40)}$	-A	-1	-/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(41)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(42)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(43)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(44)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(45)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(46)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(47)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(48)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(49)}$	-1	-1	-1	1	1	1	1	1	1	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.
$\chi_{108}^{(50)}$	-1	-1	-1	1	1	1	1	1	1	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	.	.
$\chi_{108}^{(51)}$	1	1	1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	.	.
$\chi_{108}^{(52)}$	1	1	1	-1	-1	-1	-1	-1	-1	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.
$\chi_{108}^{(53)}$	1	1	1	1	1	1	-1	-1	-1	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.
$\chi_{108}^{(54)}$	1	1	1	1	1	1	-1	-1	-1	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.
$\chi_{108}^{(55)}$	-1	-1	-1	-1	-1	-1	1	1	1	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.
$\chi_{108}^{(56)}$	-1	-1	-1	-1	-1	-1	1	1	1	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.
$\chi_{108}^{(57)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(58)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(59)}$	-/A	-1	-A	1	A	/A	/A	1	A	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.
$\chi_{108}^{(60)}$	-A	-1	-/A	1	/A	A	A	1	/A	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.

	120									130												140	
$\chi_{108}^{(61)}$	-/A	-1	-A	1	A	/A	/A	1	A	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B	.	.
$\chi_{108}^{(62)}$	-A	-1	-/A	1	/A	A	A	1	/A	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B	.	.
$\chi_{108}^{(63)}$	/A	1	A	-1	-A	-/A	-/A	-1	-A	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B	.	.
$\chi_{108}^{(64)}$	A	1	/A	-1	-/A	-A	-A	-1	-/A	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B	.	.
$\chi_{108}^{(65)}$	/A	1	A	-1	-A	-/A	-/A	-1	-A	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.
$\chi_{108}^{(66)}$	A	1	/A	-1	-/A	-A	-A	-1	-/A	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.
$\chi_{108}^{(67)}$	/A	1	A	1	A	/A	-/A	-1	-A	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	.	.
$\chi_{108}^{(68)}$	A	1	/A	1	/A	A	-A	-1	-/A	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	.	.
$\chi_{108}^{(69)}$	/A	1	A	1	A	/A	-/A	-1	-A	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.
$\chi_{108}^{(70)}$	A	1	/A	1	/A	A	-A	-1	-/A	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.
$\chi_{108}^{(71)}$	-/A	-1	-A	-1	-A	-/A	/A	1	A	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.
$\chi_{108}^{(72)}$	-A	-1	-/A	-1	-/A	-A	A	1	/A	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.
$\chi_{108}^{(73)}$	-/A	-1	-A	-1	-A	-/A	/A	1	A	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	.	.
$\chi_{108}^{(74)}$	-A	-1	-/A	-1	-/A	-A	A	1	/A	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	.	.
$\chi_{108}^{(75)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(76)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(77)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(78)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(79)}$	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	-2	-2	
$\chi_{108}^{(80)}$	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	2	2	
$\chi_{108}^{(81)}$	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	2	2
$\chi_{108}^{(82)}$	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-2	-2
$\chi_{108}^{(83)}$	.	.	.	.	.	.	.	.	.	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-2	-B
$\chi_{108}^{(84)}$	.	.	.	.	.	.	.	.	.	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-2	-/B
$\chi_{108}^{(85)}$	.	.	.	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	2	B
$\chi_{108}^{(86)}$	.	.	.	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	2	/B
$\chi_{108}^{(87)}$	.	.	.	.	.	.	.	.	.	-2	-B	-/B	/B	2	B	-2	-B	-/B	/B	2	B	2	B
$\chi_{108}^{(88)}$	.	.	.	.	.	.	.	.	.	-2	-/B	-B	B	2	/B	-2	-/B	-B	B	2	/B	2	/B
$\chi_{108}^{(89)}$	.	.	.	.	.	.	.	.	.	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-2	-B
$\chi_{108}^{(90)}$	.	.	.	.	.	.	.	.	.	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-2	-/B
$\chi_{108}^{(91)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(92)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(93)}$	1	1	1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(94)}$	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(95)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(96)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(97)}$	-1	-1	-1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(98)}$	1	1	1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(99)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(100)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(101)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(102)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(103)}$	/A	1	A	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(104)}$	A	1	/A	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(105)}$	-/A	-1	-A	1	A	/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.

	120									130														140
$\chi_{108}^{(106)}$	-A	-1	-/A	1	/A	A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(107)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(108)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(109)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(110)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(111)}$	-/A	-1	-A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(112)}$	-A	-1	-/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(113)}$	/A	1	A	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(114)}$	A	1	/A	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(115)}$	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(116)}$	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(117)}$	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(118)}$	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(119)}$	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(120)}$	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{108}^{(121)}$	.	.	.	.	.	.	.	.	.	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{108}^{(122)}$	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(123)}$	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	1
$\chi_{108}^{(124)}$	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	1
$\chi_{108}^{(125)}$	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-1
$\chi_{108}^{(126)}$	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-1
$\chi_{108}^{(127)}$	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-1
$\chi_{108}^{(128)}$	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-1
$\chi_{108}^{(129)}$	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	1
$\chi_{108}^{(130)}$	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	1
$\chi_{108}^{(131)}$	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	1
$\chi_{108}^{(132)}$	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	1
$\chi_{108}^{(133)}$	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	-1
$\chi_{108}^{(134)}$	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	-1
$\chi_{108}^{(135)}$	.	.	.	.	.	.	.	.	.	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	-1
$\chi_{108}^{(136)}$	.	.	.	.	.	.	.	.	.	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	-1
$\chi_{108}^{(137)}$	.	.	.	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	1
$\chi_{108}^{(138)}$	.	.	.	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	1
$\chi_{108}^{(139)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(140)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(141)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(142)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(143)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(144)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(145)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(146)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(147)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(148)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(149)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(150)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

	150									
$\chi_{108}^{(1)}$	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(2)}$	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(3)}$	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{108}^{(4)}$	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{108}^{(5)}$	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{108}^{(6)}$	1	1	1	1	1	1	1	1	1	1
$\chi_{108}^{(7)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{108}^{(9)}$	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{108}^{(10)}$	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{108}^{(11)}$	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{108}^{(12)}$	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{108}^{(13)}$	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{108}^{(14)}$	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{108}^{(15)}$	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{108}^{(16)}$	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{108}^{(17)}$	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{108}^{(18)}$	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{108}^{(19)}$	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{108}^{(20)}$	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{108}^{(21)}$	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{108}^{(22)}$	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{108}^{(23)}$	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{108}^{(24)}$	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{108}^{(25)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(26)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(27)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(28)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(29)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(30)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(31)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(32)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(33)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(34)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(35)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(36)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(37)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(38)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(39)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(40)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(41)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(42)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(43)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(44)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(45)}$	.	.	.	.	.	.	.	.	.	.

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$\chi_{108}^{(46)}$	· · · · · · · · · ·
$\chi_{108}^{(47)}$	· · · · · · · · · ·
$\chi_{108}^{(48)}$	· · · · · · · · · ·
$\chi_{108}^{(49)}$	· · · · · · · · · ·
$\chi_{108}^{(50)}$	· · · · · · · · · ·
$\chi_{108}^{(51)}$	· · · · · · · · · ·
$\chi_{108}^{(52)}$	· · · · · · · · · ·
$\chi_{108}^{(53)}$	· · · · · · · · · ·
$\chi_{108}^{(54)}$	· · · · · · · · · ·
$\chi_{108}^{(55)}$	· · · · · · · · · ·
$\chi_{108}^{(56)}$	· · · · · · · · · ·
$\chi_{108}^{(57)}$	· · · · · · · · · ·
$\chi_{108}^{(58)}$	· · · · · · · · · ·
$\chi_{108}^{(59)}$	· · · · · · · · · ·
$\chi_{108}^{(60)}$	· · · · · · · · · ·
$\chi_{108}^{(61)}$	· · · · · · · · · ·
$\chi_{108}^{(62)}$	· · · · · · · · · ·
$\chi_{108}^{(63)}$	· · · · · · · · · ·
$\chi_{108}^{(64)}$	· · · · · · · · · ·
$\chi_{108}^{(65)}$	· · · · · · · · · ·
$\chi_{108}^{(66)}$	· · · · · · · · · ·
$\chi_{108}^{(67)}$	· · · · · · · · · ·
$\chi_{108}^{(68)}$	· · · · · · · · · ·
$\chi_{108}^{(69)}$	· · · · · · · · · ·
$\chi_{108}^{(70)}$	· · · · · · · · · ·
$\chi_{108}^{(71)}$	· · · · · · · · · ·
$\chi_{108}^{(72)}$	· · · · · · · · · ·
$\chi_{108}^{(73)}$	· · · · · · · · · ·
$\chi_{108}^{(74)}$	· · · · · · · · · ·
$\chi_{108}^{(75)}$	· · · · · · · · · ·
$\chi_{108}^{(76)}$	· · · · · · · · · ·
$\chi_{108}^{(77)}$	· · · · · · · · · ·
$\chi_{108}^{(78)}$	· · · · · · · · · ·
$\chi_{108}^{(79)}$	-2 -2 -2 -2 . . . . . .
$\chi_{108}^{(80)}$	2 2 2 2 . . . . . .
$\chi_{108}^{(81)}$	2 -2 -2 -2 . . . . . .
$\chi_{108}^{(82)}$	-2 2 2 2 . . . . . .
$\chi_{108}^{(83)}$	-/B -/B -2 -B . . . . . .
$\chi_{108}^{(84)}$	-B -B -2 -/B . . . . . .
$\chi_{108}^{(85)}$	/B /B 2 B . . . . . .
$\chi_{108}^{(86)}$	B B 2 /B . . . . . .
$\chi_{108}^{(87)}$	/B -/B -2 -B . . . . . .
$\chi_{108}^{(88)}$	B -B -2 -/B . . . . . .
$\chi_{108}^{(89)}$	-/B /B 2 B . . . . . .
$\chi_{108}^{(90)}$	-B B 2 /B . . . . . .

	150
$\chi_{108}^{(91)}$	.
$\chi_{108}^{(92)}$	.
$\chi_{108}^{(93)}$	.
$\chi_{108}^{(94)}$	.
$\chi_{108}^{(95)}$	.
$\chi_{108}^{(96)}$	.
$\chi_{108}^{(97)}$	.
$\chi_{108}^{(98)}$	.
$\chi_{108}^{(99)}$	.
$\chi_{108}^{(100)}$	.
$\chi_{108}^{(101)}$	.
$\chi_{108}^{(102)}$	.
$\chi_{108}^{(103)}$	.
$\chi_{108}^{(104)}$	.
$\chi_{108}^{(105)}$	.
$\chi_{108}^{(106)}$	.
$\chi_{108}^{(107)}$	.
$\chi_{108}^{(108)}$	.
$\chi_{108}^{(109)}$	.
$\chi_{108}^{(110)}$	.
$\chi_{108}^{(111)}$	.
$\chi_{108}^{(112)}$	.
$\chi_{108}^{(113)}$	.
$\chi_{108}^{(114)}$	.
$\chi_{108}^{(115)}$	1
$\chi_{108}^{(116)}$	-1
$\chi_{108}^{(117)}$	-1
$\chi_{108}^{(118)}$	1
$\chi_{108}^{(119)}$	-1
$\chi_{108}^{(120)}$	1
$\chi_{108}^{(121)}$	1
$\chi_{108}^{(122)}$	-1
$\chi_{108}^{(123)}$	/A
$\chi_{108}^{(124)}$	A
$\chi_{108}^{(125)}$	-/A
$\chi_{108}^{(126)}$	-A
$\chi_{108}^{(127)}$	-/A
$\chi_{108}^{(128)}$	-A
$\chi_{108}^{(129)}$	/A
$\chi_{108}^{(130)}$	A
$\chi_{108}^{(131)}$	-/A
$\chi_{108}^{(132)}$	-A
$\chi_{108}^{(133)}$	/A
$\chi_{108}^{(134)}$	A
$\chi_{108}^{(135)}$	/A

	150									
$\chi_{108}^{(136)}$	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{108}^{(137)}$	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{108}^{(138)}$	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{108}^{(139)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(140)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(141)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(142)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(143)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(144)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(145)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(146)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(147)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(148)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(149)}$	.	.	.	.	.	.	.	.	.	.
$\chi_{108}^{(150)}$	.	.	.	.	.	.	.	.	.	.

where A = E(3)^2 = (-1-ER(-3))/2 = -1-b3, B = 2*E(3)^2 = -1-ER(-3) = -1-i3, C = 4*E(3)^2 = -2-2*ER(-3) = -2-2i3, D = 6*E(3)^2 = -3-3*ER(-3) = -3-3i3, E = 8*E(3)^2 = -4-4*ER(-3) = -4-4i3, F = 9*E(3)^2 = (-9-9*ER(-3))/2 = -9-9b3, G = 12*E(3)^2 = -6-6*ER(-3) = -6-6i3, H = 16*E(3)^2 = -8-8*ER(-3) = -8-8i3, I = -3*E(3)^2 = (3+3*ER(-3))/2 = 3+3b3.

The generators of G^{s109} are:

$$\begin{pmatrix} 0&1&-1&0&-1&2&-1&0\\ 0&3&-1&-1&-1&2&-1&0\\ 0&3&-1&-1&-2&3&-1&0\\ 1&5&-2&-2&-2&4&-2&0\\ 1&4&-2&-1&-2&3&-2&1\\ 1&3&-2&0&-2&2&-1&0\\ 0&2&-1&0&-1&1&-1&0\\ 0&1&-1&0&0&0&0&0 \end{pmatrix}, \begin{pmatrix} 1&0&0&0&0&0&0&0\\ 0&1&0&0&0&0&0&0\\ 0&0&1&0&0&0&0&0\\ 0&0&0&1&0&0&0&0\\ 0&0&0&1&0&0&-1&1\\ 0&0&0&1&-1&1&-1&1\\ 0&0&0&1&-1&0&0&1\\ 0&0&0&0&0&0&0&1 \end{pmatrix}, \begin{pmatrix} 1&-1&0&-1&2&-1&1&-1\\ 2&-1&-1&-1&3&-2&1&0\\ 2&-1&0&-2&4&-3&2&-1\\ 4&-2&-1&-2&5&-4&3&-1\\ 3&-2&-1&-1&4&-3&2&-1\\ 2&-2&0&-1&3&-2&1&0\\ 1&-1&0&-1&2&-1&1&0\\ 1&0&0&-1&1&0&0&0 \end{pmatrix},$$

$$\begin{pmatrix} 1&1&0&-1&0&1&-1&-1\\ 0&1&1&-1&-1&2&-1&-2\\ 0&2&1&-2&0&2&-2&-2\\ 0&2&1&-2&-1&4&-3&-3\\ 0&1&1&-2&0&3&-2&-3\\ 0&1&1&-2&0&3&-2&-2\\ 0&1&1&-2&0&2&-1&-1\\ 0&0&1&-1&0&1&-1&0 \end{pmatrix}, \begin{pmatrix} 1&-1&0&0&1&-1&0&1\\ 0&-1&0&0&2&-2&0&2\\ 0&-2&1&0&2&-2&0&2\\ 0&-3&0&1&3&-3&0&3\\ 0&-2&0&0&3&-2&0&2\\ 0&-2&0&0&2&-1&0&2\\ 0&-1&0&0&1&-1&1&1\\ 0&0&0&0&0&0&0&1 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s109} are:

$$\begin{pmatrix} 1&0&0&0&0&0&0&0\\ 0&1&0&0&0&0&0&0\\ 0&0&1&0&0&0&0&0\\ 0&0&0&1&0&0&0&0\\ 0&0&0&0&1&0&0&0\\ 0&0&0&0&0&1&0&0\\ 0&0&0&0&0&0&1&0\\ 0&0&0&0&0&0&0&1 \end{pmatrix}, \begin{pmatrix} 1&0&-1&1&0&-1&1&-1\\ 0&1&-1&1&0&-1&1&-1\\ 0&0&-1&2&0&-2&2&-2\\ 0&0&-2&3&0&-2&2&-2\\ 0&0&-2&2&1&-2&2&-2\\ 0&0&-1&1&1&-1&1&-2\\ 0&0&0&0&1&-1&1&-1\\ 0&0&0&0&1&-1&0&0 \end{pmatrix}, \begin{pmatrix} 1&0&-1&1&-1&0&1&0\\ 0&1&-1&1&-1&0&1&0\\ 0&0&-1&2&-2&0&2&0\\ 0&0&-2&3&-2&0&2&0\\ 0&0&-2&2&-1&0&2&0\\ 0&0&-2&2&-1&0&2&-1\\ 0&0&-1&1&0&-1&2&-1\\ 0&0&-1&1&0&-1&1&0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & 0 & -1 & 2 & -1 & 0 \\ 0 & 3 & -1 & -1 & -1 & 2 & -1 & 0 \\ 0 & 3 & -1 & -1 & -2 & 3 & -1 & 0 \\ 1 & 5 & -2 & -2 & -2 & 4 & -2 & 0 \\ 1 & 4 & -2 & -1 & -2 & 3 & -2 & 1 \\ 1 & 3 & -2 & 0 & -2 & 2 & -1 & 0 \\ 0 & 2 & -1 & 0 & -1 & 1 & -1 & 0 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 2 & -2 & 0 \\ 0 & 3 & 0 & -2 & 0 & 2 & -2 & 0 \\ 0 & 3 & 1 & -3 & 0 & 3 & -3 & 0 \\ 1 & 5 & 0 & -4 & 0 & 4 & -4 & 0 \\ 1 & 4 & 0 & -3 & 0 & 3 & -4 & 1 \\ 1 & 3 & 0 & -2 & -1 & 3 & -3 & 1 \\ 0 & 2 & 0 & -1 & -1 & 2 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 0 & 1 & -1 & -1 \\ 0 & 3 & -1 & -1 & 0 & 1 & -1 & -1 \\ 0 & 3 & -1 & -1 & 0 & 1 & -1 & -2 \\ 1 & 5 & -2 & -2 & 0 & 2 & -2 & -2 \\ 1 & 4 & -2 & -1 & 0 & 1 & -2 & -1 \\ 1 & 3 & -1 & -1 & 0 & 1 & -2 & -1 \\ 0 & 2 & 0 & -1 & 0 & 1 & -2 & 0 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 1 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 1 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 2 & 0 & -2 & 2 & -2 \\ 0 & 0 & -2 & 3 & 0 & -2 & 2 & -2 \\ 0 & 0 & -2 & 3 & 0 & -2 & 1 & -1 \\ 0 & 0 & -1 & 2 & 0 & -1 & 0 & -1 \\ 0 & 0 & 0 & 1 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & 1 & 0 \\ 0 & 1 & -1 & 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 2 & -2 & 0 & 2 & 0 \\ 0 & 0 & -2 & 3 & -2 & 0 & 2 & 0 \\ 0 & 0 & -2 & 3 & -2 & 0 & 1 & 1 \\ 0 & 0 & -2 & 3 & -2 & 0 & 1 & 0 \\ 0 & 0 & -1 & 2 & -1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & 0 & -1 & 2 & -1 & 0 \\ 0 & 3 & -1 & -1 & -1 & 2 & -1 & 0 \\ 0 & 3 & -1 & -1 & -2 & 3 & -1 & 0 \\ 1 & 5 & -2 & -2 & -2 & 4 & -2 & 0 \\ 1 & 4 & -2 & -2 & -1 & 3 & -1 & 0 \\ 1 & 3 & -2 & -1 & -1 & 2 & 0 & -1 \\ 0 & 2 & -1 & -1 & 0 & 1 & 0 & -1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 2 & -2 & 0 \\ 0 & 3 & 0 & -2 & 0 & 2 & -2 & 0 \\ 0 & 3 & 1 & -3 & 0 & 3 & -3 & 0 \\ 1 & 5 & 0 & -4 & 0 & 4 & -4 & 0 \\ 1 & 4 & 0 & -4 & 1 & 3 & -3 & 0 \\ 1 & 3 & 0 & -3 & 0 & 3 & -2 & 0 \\ 0 & 2 & 0 & -2 & 0 & 2 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 0 & 1 & -1 & -1 \\ 0 & 3 & -1 & -1 & 0 & 1 & -1 & -1 \\ 0 & 3 & -1 & -1 & 0 & 1 & -1 & -2 \\ 1 & 5 & -2 & -2 & 0 & 2 & -2 & -2 \\ 1 & 4 & -2 & -2 & 1 & 1 & -1 & -2 \\ 1 & 3 & -1 & -2 & 1 & 1 & -1 & -2 \\ 0 & 2 & 0 & -2 & 1 & 1 & -1 & -1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 0 & 1 & -2 \\ 0 & -1 & -1 & 1 & 0 & 1 & 1 & -3 \\ -1 & -1 & -1 & 1 & 1 & 0 & 2 & -4 \\ -1 & -2 & -1 & 1 & 1 & 1 & 3 & -6 \\ 0 & -2 & -1 & 1 & 1 & 0 & 3 & -5 \\ 0 & -1 & 0 & 0 & 1 & 0 & 2 & -4 \\ 0 & -1 & 0 & 0 & 1 & 0 & 1 & -2 \\ 0 & -1 & 0 & 0 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & -1 & 1 & 1 & -1 \\ 0 & -1 & -1 & 1 & -1 & 2 & 1 & -2 \\ -1 & -1 & -1 & 1 & -1 & 2 & 2 & -2 \\ -1 & -2 & -1 & 1 & -1 & 3 & 3 & -4 \\ 0 & -2 & -1 & 1 & -1 & 2 & 3 & -3 \\ 0 & -1 & -1 & 1 & -1 & 1 & 3 & -3 \\ 0 & -1 & -1 & 1 & 0 & 0 & 2 & -2 \\ 0 & -1 & -1 & 1 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 0 & 1 & 0 & -1 \\ 0 & -1 & 0 & 0 & 0 & 2 & 0 & -2 \\ -1 & -1 & 1 & -1 & 1 & 2 & 0 & -2 \\ -1 & -2 & 1 & -1 & 1 & 3 & 1 & -4 \\ 0 & -2 & 1 & -1 & 1 & 2 & 1 & -3 \\ 0 & -1 & 1 & -1 & 0 & 2 & 1 & -2 \\ 0 & -1 & 0 & 0 & 0 & 1 & 1 & -1 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 1 & -1 & -1 & 1 & -1 & 0 \\ 2 & 1 & 0 & 0 & -2 & 2 & -2 & 0 \\ 2 & 2 & 1 & -1 & -2 & 2 & -3 & 1 \\ 3 & 2 & 1 & 0 & -4 & 3 & -4 & 1 \\ 2 & 1 & 1 & 0 & -3 & 3 & -4 & 1 \\ 1 & 1 & 1 & 0 & -3 & 3 & -3 & 1 \\ 1 & 1 & 0 & 0 & -2 & 2 & -2 & 1 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 2 & 1 & -1 & 1 & -2 & 1 & -1 & -1 \\ 2 & 2 & -1 & 1 & -2 & 0 & -1 & -1 \\ 3 & 2 & -1 & 2 & -4 & 1 & -2 & -1 \\ 2 & 1 & -1 & 2 & -3 & 1 & -2 & -1 \\ 1 & 1 & 0 & 1 & -2 & 1 & -2 & -1 \\ 1 & 1 & 0 & 0 & -1 & 1 & -2 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & 0 & -2 & 1 & 0 & 0 \\ 2 & 1 & -1 & 1 & -3 & 2 & -1 & 0 \\ 2 & 2 & -1 & 1 & -4 & 2 & -1 & 1 \\ 3 & 2 & -1 & 2 & -6 & 3 & -2 & 1 \\ 2 & 1 & -1 & 2 & -5 & 3 & -2 & 1 \\ 1 & 1 & -1 & 2 & -4 & 2 & -1 & 0 \\ 1 & 1 & -1 & 1 & -2 & 1 & -1 & 0 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 1 & -1 \\ 2 & -1 & -1 & -1 & 3 & -2 & 1 & 0 \\ 2 & -1 & 0 & -2 & 4 & -3 & 2 & -1 \\ 4 & -2 & -1 & -2 & 5 & -4 & 3 & -1 \\ 3 & -2 & -1 & -1 & 4 & -3 & 2 & -1 \\ 2 & -2 & 0 & -1 & 3 & -2 & 1 & 0 \\ 1 & -1 & 0 & -1 & 2 & -1 & 1 & 0 \\ 1 & 0 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 0 & 1 & -1 & 2 & -1 \\ 2 & -1 & -2 & 0 & 2 & -2 & 2 & 0 \\ 2 & -1 & -2 & 0 & 2 & -3 & 4 & -1 \\ 4 & -2 & -3 & 0 & 3 & -4 & 5 & -1 \\ 3 & -2 & -3 & 1 & 2 & -3 & 4 & -1 \\ 2 & -2 & -2 & 1 & 2 & -3 & 3 & -1 \\ 1 & -1 & -1 & 0 & 2 & -2 & 2 & -1 \\ 1 & 0 & -1 & 0 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 1 & 0 & 1 & 0 \\ 2 & -1 & -1 & -1 & 2 & -1 & 1 & 1 \\ 2 & -1 & 0 & -2 & 2 & -1 & 2 & 1 \\ 4 & -2 & -1 & -2 & 3 & -2 & 3 & 1 \\ 3 & -2 & -1 & -1 & 2 & -1 & 2 & 1 \\ 2 & -2 & -1 & 0 & 1 & -1 & 2 & 1 \\ 1 & -1 & -1 & 0 & 1 & -1 & 2 & 0 \\ 1 & 0 & -1 & 0 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & -2 & 2 \\ 0 & -1 & -1 & 1 & 0 & 1 & -3 & 3 \\ -1 & -1 & 0 & 1 & -1 & 2 & -4 & 4 \\ -1 & -2 & -1 & 2 & -1 & 3 & -6 & 5 \\ 0 & -1 & -1 & 1 & -1 & 3 & -5 & 4 \\ 0 & -1 & -1 & 1 & -1 & 2 & -3 & 3 \\ 0 & 0 & -1 & 1 & -1 & 1 & -2 & 2 \\ 0 & 0 & -1 & 1 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -2 & 1 \\ 0 & -1 & -1 & 1 & 1 & 0 & -3 & 2 \\ -1 & -1 & 0 & 1 & 1 & 0 & -4 & 2 \\ -1 & -2 & -1 & 2 & 1 & 1 & -6 & 3 \\ 0 & -1 & -1 & 1 & 1 & 1 & -5 & 2 \\ 0 & -1 & 0 & 0 & 1 & 1 & -4 & 2 \\ 0 & 0 & 0 & 0 & 0 & 1 & -3 & 2 \\ 0 & 0 & 0 & 0 & 0 & 1 & -2 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 2 & -1 & 0 & -1 & 1 \\ 0 & -1 & -2 & 2 & 0 & 0 & -2 & 2 \\ -1 & -1 & -2 & 3 & -1 & 0 & -2 & 2 \\ -1 & -2 & -3 & 4 & -1 & 1 & -4 & 3 \\ 0 & -1 & -3 & 3 & -1 & 1 & -3 & 2 \\ 0 & -1 & -2 & 2 & 0 & 0 & -2 & 1 \\ 0 & 0 & -1 & 1 & 0 & 0 & -2 & 1 \\ 0 & 0 & -1 & 1 & 0 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 1 & 0 & -2 & 2 & 0 \\ 0 & -3 & 0 & 2 & 0 & -2 & 2 & 0 \\ 0 & -3 & -1 & 3 & 0 & -3 & 3 & 0 \\ -1 & -5 & 0 & 4 & 0 & -4 & 4 & 0 \\ -1 & -4 & 0 & 3 & 0 & -3 & 4 & -1 \\ -1 & -3 & 0 & 2 & 1 & -3 & 3 & -1 \\ 0 & -2 & 0 & 1 & 1 & -2 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 0 & -1 & 1 & 1 \\ 0 & -3 & 1 & 1 & 0 & -1 & 1 & 1 \\ 0 & -3 & 1 & 1 & 0 & -1 & 1 & 2 \\ -1 & -5 & 2 & 2 & 0 & -2 & 2 & 2 \\ -1 & -4 & 2 & 1 & 0 & -1 & 2 & 1 \\ -1 & -3 & 1 & 1 & 0 & -1 & 2 & 1 \\ 0 & -2 & 0 & 1 & 0 & -1 & 2 & 0 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -3 & 1 & 1 & 1 & -2 & 1 & 0 \\ 0 & -3 & 1 & 1 & 2 & -3 & 1 & 0 \\ -1 & -5 & 2 & 2 & 2 & -4 & 2 & 0 \\ -1 & -4 & 2 & 1 & 2 & -3 & 2 & -1 \\ -1 & -3 & 2 & 0 & 2 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 1 & -1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & -1 & 1 & 0 & -1 & 0 \\ 0 & -1 & 1 & -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -2 & 2 & 0 & -2 & 0 \\ 0 & 0 & 2 & -3 & 2 & 0 & -2 & 0 \\ 0 & 0 & 2 & -2 & 1 & 0 & -2 & 0 \\ 0 & 0 & 2 & -2 & 1 & 0 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & -1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -2 & 0 & 2 & -2 & 2 \\ 0 & 0 & 2 & -3 & 0 & 2 & -2 & 2 \\ 0 & 0 & 2 & -2 & -1 & 2 & -2 & 2 \\ 0 & 0 & 1 & -1 & -1 & 1 & -1 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 1 & 0 & -2 & 2 & 0 \\ 0 & -3 & 0 & 2 & 0 & -2 & 2 & 0 \\ 0 & -3 & -1 & 3 & 0 & -3 & 3 & 0 \\ -1 & -5 & 0 & 4 & 0 & -4 & 4 & 0 \\ -1 & -4 & 0 & 4 & -1 & -3 & 3 & 0 \\ -1 & -3 & 0 & 3 & 0 & -3 & 2 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 0 & -1 & 1 & 1 \\ 0 & -3 & 1 & 1 & 0 & -1 & 1 & 1 \\ 0 & -3 & 1 & 1 & 0 & -1 & 1 & 2 \\ -1 & -5 & 2 & 2 & 0 & -2 & 2 & 2 \\ -1 & -4 & 2 & 2 & -1 & -1 & 1 & 2 \\ -1 & -3 & 1 & 2 & -1 & -1 & 1 & 2 \\ 0 & -2 & 0 & 2 & -1 & -1 & 1 & 1 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -3 & 1 & 1 & 1 & -2 & 1 & 0 \\ 0 & -3 & 1 & 1 & 2 & -3 & 1 & 0 \\ -1 & -5 & 2 & 2 & 2 & -4 & 2 & 0 \\ -1 & -4 & 2 & 2 & 1 & -3 & 1 & 0 \\ -1 & -3 & 2 & 1 & 1 & -2 & 0 & 1 \\ 0 & -2 & 1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & -1 & 1 & 0 & -1 & 0 \\ 0 & -1 & 1 & -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -2 & 2 & 0 & -2 & 0 \\ 0 & 0 & 2 & -3 & 2 & 0 & -2 & 0 \\ 0 & 0 & 2 & -3 & 2 & 0 & -1 & -1 \\ 0 & 0 & 2 & -3 & 2 & 0 & -1 & 0 \\ 0 & 0 & 1 & -2 & 1 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & -1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -2 & 0 & 2 & -2 & 2 \\ 0 & 0 & 2 & -3 & 0 & 2 & -2 & 2 \\ 0 & 0 & 2 & -3 & 0 & 2 & -1 & 1 \\ 0 & 0 & 1 & -2 & 0 & 1 & 0 & 1 \\ 0 & 0 & 0 & -1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & -1 & 0 & 1 & -1 & -1 \\ 0 & 1 & 1 & -1 & -1 & 2 & -1 & -2 \\ 0 & 2 & 1 & -2 & 0 & 2 & -2 & -2 \\ 0 & 2 & 1 & -2 & -1 & 4 & -3 & -3 \\ 0 & 1 & 1 & -2 & 0 & 3 & -2 & -3 \\ 0 & 1 & 1 & -2 & 0 & 3 & -2 & -2 \\ 0 & 1 & 1 & -2 & 0 & 2 & -1 & -1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & -1 & 1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 & 2 & 0 & -2 \\ 0 & 2 & -1 & 0 & -2 & 2 & 0 & -2 \\ 0 & 2 & -1 & 0 & -3 & 4 & -1 & -3 \\ 0 & 1 & -1 & 0 & -2 & 3 & 0 & -3 \\ 0 & 1 & -1 & 0 & -1 & 2 & 0 & -3 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & -1 & 2 & -1 & 0 \\ 0 & 1 & 1 & -1 & -2 & 3 & -1 & -1 \\ 0 & 2 & 1 & -2 & -2 & 4 & -2 & 0 \\ 0 & 2 & 1 & -2 & -3 & 6 & -3 & -1 \\ 0 & 1 & 1 & -2 & -2 & 5 & -2 & -1 \\ 0 & 1 & 0 & -1 & -2 & 4 & -1 & -1 \\ 0 & 1 & 0 & -1 & -1 & 2 & 0 & -1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -2 & 1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 2 & -3 & 1 & 2 & -1 \\ 1 & -2 & 1 & 2 & -3 & 1 & 1 & 0 \\ 1 & -1 & 0 & 2 & -3 & 1 & 1 & 0 \\ 0 & -1 & 0 & 2 & -2 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & 1 & 1 & -1 & 0 & 1 & -2 \\ 0 & -1 & 1 & 1 & 0 & -1 & 1 & -2 \\ 1 & -2 & 1 & 2 & -1 & -1 & 2 & -3 \\ 1 & -2 & 1 & 2 & -1 & -1 & 1 & -2 \\ 1 & -1 & 1 & 1 & -1 & 0 & 0 & -1 \\ 0 & -1 & 1 & 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 2 & -1 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 & 0 & 2 & -2 \\ 0 & -1 & -1 & 3 & -2 & -1 & 3 & -2 \\ 1 & -2 & -1 & 4 & -3 & -1 & 4 & -3 \\ 1 & -2 & -1 & 4 & -3 & -1 & 3 & -2 \\ 1 & -1 & -1 & 3 & -2 & -1 & 2 & -2 \\ 0 & -1 & 0 & 2 & -1 & -1 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 1 & -1 & -1 \\ -2 & -1 & 1 & 1 & -1 & 2 & -1 & -2 \\ -3 & -1 & 1 & 1 & 0 & 2 & -2 & -2 \\ -4 & -2 & 1 & 2 & -1 & 4 & -3 & -3 \\ -3 & -2 & 1 & 1 & 0 & 3 & -2 & -3 \\ -2 & -1 & 1 & 0 & 0 & 3 & -2 & -2 \\ -2 & -1 & 1 & 0 & 0 & 2 & -1 & -1 \\ -1 & -1 & 1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & -1 & 2 & -1 & 1 & 0 & -1 \\ -2 & -1 & 0 & 2 & -2 & 2 & 0 & -2 \\ -3 & -1 & -1 & 3 & -2 & 2 & 0 & -2 \\ -4 & -2 & -1 & 4 & -3 & 4 & -1 & -3 \\ -3 & -2 & -1 & 3 & -2 & 3 & 0 & -3 \\ -2 & -1 & -1 & 2 & -1 & 2 & 0 & -3 \\ -2 & -1 & 0 & 1 & 0 & 1 & 0 & -2 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & -1 & 2 & -1 & 0 \\ -2 & -1 & 1 & 1 & -2 & 3 & -1 & -1 \\ -3 & -1 & 1 & 1 & -2 & 4 & -2 & 0 \\ -4 & -2 & 1 & 2 & -3 & 6 & -3 & -1 \\ -3 & -2 & 1 & 1 & -2 & 5 & -2 & -1 \\ -2 & -1 & 0 & 1 & -2 & 4 & -1 & -1 \\ -2 & -1 & 0 & 1 & -1 & 2 & 0 & -1 \\ -1 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 2 & 1 & 0 & -1 & -1 & 1 & 0 & 0 \\ 2 & 1 & 1 & -1 & -2 & 1 & 1 & -1 \\ 3 & 2 & 1 & -2 & -2 & 1 & 1 & 0 \\ 5 & 2 & 1 & -2 & -3 & 1 & 2 & -1 \\ 4 & 1 & 1 & -1 & -3 & 1 & 1 & 0 \\ 3 & 1 & 0 & 0 & -3 & 1 & 1 & 0 \\ 2 & 1 & 0 & 0 & -2 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 1 & 0 & -1 & 0 & 0 & 0 & -1 \\ 2 & 1 & 1 & -1 & -1 & 0 & 1 & -2 \\ 3 & 2 & 1 & -2 & 0 & -1 & 1 & -2 \\ 5 & 2 & 1 & -2 & -1 & -1 & 2 & -3 \\ 4 & 1 & 1 & -1 & -1 & -1 & 1 & -2 \\ 3 & 1 & 1 & -1 & -1 & 0 & 0 & -1 \\ 2 & 1 & 1 & -1 & -1 & 0 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 1 & -1 & 0 & -1 & 0 & 1 & -1 \\ 2 & 1 & 0 & 0 & -2 & 0 & 2 & -2 \\ 3 & 2 & -1 & 0 & -2 & -1 & 3 & -2 \\ 5 & 2 & -1 & 0 & -3 & -1 & 4 & -3 \\ 4 & 1 & -1 & 1 & -3 & -1 & 3 & -2 \\ 3 & 1 & -1 & 1 & -2 & -1 & 2 & -2 \\ 2 & 1 & 0 & 0 & -1 & -1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 0 & -1 & 0 \\ -2 & -1 & 1 & 1 & 0 & -1 & -1 & 1 \\ -2 & -1 & 0 & 2 & 0 & -1 & -2 & 1 \\ -3 & -2 & 1 & 3 & -1 & -1 & -3 & 2 \\ -3 & -2 & 1 & 3 & -1 & -1 & -2 & 1 \\ -2 & -2 & 1 & 2 & 0 & -1 & -2 & 1 \\ -2 & -1 & 1 & 1 & 0 & 0 & -2 & 1 \\ -1 & 0 & 1 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & -1 & 1 & -1 & 1 \\ -2 & -1 & 1 & 1 & -1 & 0 & -1 & 2 \\ -2 & -1 & 0 & 2 & -2 & 1 & -2 & 3 \\ -3 & -2 & 1 & 3 & -3 & 1 & -3 & 4 \\ -3 & -2 & 1 & 3 & -3 & 1 & -2 & 3 \\ -2 & -2 & 0 & 3 & -2 & 0 & -1 & 2 \\ -2 & -1 & 0 & 2 & -1 & 0 & -1 & 1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 0 & 1 & -2 & 1 \\ -2 & -1 & 2 & 0 & 0 & 0 & -2 & 2 \\ -2 & -1 & 2 & 0 & 0 & 1 & -4 & 3 \\ -3 & -2 & 3 & 1 & -1 & 1 & -5 & 4 \\ -3 & -2 & 3 & 1 & -1 & 1 & -4 & 3 \\ -2 & -2 & 2 & 1 & -1 & 1 & -3 & 3 \\ -2 & -1 & 1 & 1 & -1 & 1 & -2 & 2 \\ -1 & 0 & 1 & 0 & -1 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 1 & -1 & 1 & -1 & 1 & 0 \\ 0 & -1 & 2 & -2 & 2 & -2 & 2 & 0 \\ 1 & -1 & 2 & -3 & 3 & -2 & 2 & 0 \\ 1 & -2 & 3 & -4 & 4 & -3 & 4 & -1 \\ 1 & -1 & 3 & -4 & 3 & -2 & 3 & -1 \\ 1 & -1 & 2 & -3 & 2 & -1 & 2 & 0 \\ 1 & 0 & 1 & -2 & 1 & -1 & 2 & 0 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -2 & 2 & -1 \\ 0 & -1 & 1 & -1 & 2 & -3 & 3 & -1 \\ 1 & -1 & 0 & -1 & 3 & -4 & 4 & -2 \\ 1 & -2 & 1 & -2 & 4 & -5 & 6 & -3 \\ 1 & -1 & 1 & -2 & 3 & -4 & 5 & -3 \\ 1 & -1 & 1 & -2 & 3 & -3 & 3 & -2 \\ 1 & 0 & 1 & -2 & 2 & -2 & 2 & -1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 0 & -1 & 2 & 0 \\ 0 & -1 & 1 & -1 & 1 & -2 & 3 & 0 \\ 1 & -1 & 0 & -1 & 1 & -2 & 4 & 0 \\ 1 & -2 & 1 & -2 & 2 & -3 & 6 & -1 \\ 1 & -1 & 1 & -2 & 1 & -2 & 5 & -1 \\ 1 & -1 & 0 & -1 & 1 & -2 & 4 & -1 \\ 1 & 0 & 0 & -1 & 1 & -2 & 3 & -1 \\ 0 & 0 & 0 & 0 & 0 & -1 & 2 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 0 & 1 & 0 & 0 & -1 \\ -2 & -1 & 1 & -1 & 2 & -1 & 1 & -1 \\ -2 & -1 & 0 & -1 & 3 & -1 & 1 & -2 \\ -3 & -2 & 1 & -2 & 4 & -1 & 2 & -3 \\ -3 & -2 & 1 & -1 & 3 & -1 & 2 & -3 \\ -2 & -2 & 1 & -1 & 3 & -1 & 1 & -2 \\ -2 & -1 & 1 & -1 & 2 & 0 & 0 & -1 \\ -1 & 0 & 1 & -1 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 0 & 0 & 1 & 0 & 0 \\ -2 & -1 & 1 & -1 & 1 & 0 & 1 & 0 \\ -2 & -1 & 0 & -1 & 1 & 1 & 1 & 0 \\ -3 & -2 & 1 & -2 & 2 & 1 & 2 & -1 \\ -3 & -2 & 1 & -1 & 1 & 1 & 2 & -1 \\ -2 & -2 & 0 & 0 & 1 & 0 & 2 & -1 \\ -2 & -1 & 0 & 0 & 1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & -1 & 1 & 1 & -1 & 0 \\ -2 & -1 & 2 & -2 & 2 & 0 & 0 & 0 \\ -2 & -1 & 2 & -3 & 3 & 1 & -1 & 0 \\ -3 & -2 & 3 & -4 & 4 & 1 & 0 & -1 \\ -3 & -2 & 3 & -3 & 3 & 1 & 0 & -1 \\ -2 & -2 & 2 & -2 & 2 & 1 & 0 & 0 \\ -2 & -1 & 1 & -1 & 1 & 1 & 0 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 1 & 0 & 0 & -1 & 0 & 1 \\ 0 & -1 & 2 & 0 & 0 & -2 & 0 & 2 \\ 1 & -1 & 2 & 0 & 0 & -2 & -1 & 3 \\ 1 & -2 & 3 & 1 & -1 & -3 & -1 & 4 \\ 1 & -1 & 3 & 0 & -1 & -2 & -1 & 3 \\ 1 & -1 & 2 & 0 & -1 & -1 & -1 & 3 \\ 1 & 0 & 1 & 0 & -1 & -1 & 0 & 2 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -2 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 & -3 & 1 & 1 \\ 1 & -1 & 0 & 2 & 0 & -4 & 1 & 1 \\ 1 & -2 & 1 & 3 & -1 & -5 & 1 & 2 \\ 1 & -1 & 1 & 2 & -1 & -4 & 1 & 1 \\ 1 & -1 & 1 & 1 & 0 & -3 & 0 & 1 \\ 1 & 0 & 1 & 0 & 0 & -2 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & -1 & -1 & 1 & 1 \\ 0 & -1 & 1 & 1 & -1 & -2 & 1 & 2 \\ 1 & -1 & 0 & 2 & -2 & -2 & 1 & 3 \\ 1 & -2 & 1 & 3 & -3 & -3 & 1 & 4 \\ 1 & -1 & 1 & 2 & -3 & -2 & 1 & 3 \\ 1 & -1 & 0 & 2 & -2 & -2 & 1 & 2 \\ 1 & 0 & 0 & 1 & -1 & -2 & 1 & 1 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 & -2 & 0 & 2 \\ 0 & -2 & 1 & 0 & 2 & -2 & 0 & 2 \\ 0 & -3 & 0 & 1 & 3 & -3 & 0 & 3 \\ 0 & -2 & 0 & 0 & 3 & -2 & 0 & 2 \\ 0 & -2 & 0 & 0 & 2 & -1 & 0 & 2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 1 & -2 & 1 & 0 \\ 0 & -1 & -1 & 1 & 2 & -3 & 1 & 1 \\ 0 & -2 & -1 & 2 & 2 & -4 & 2 & 0 \\ 0 & -3 & -2 & 3 & 3 & -5 & 2 & 1 \\ 0 & -2 & -2 & 2 & 3 & -4 & 2 & 0 \\ 0 & -2 & -1 & 1 & 3 & -3 & 1 & 0 \\ 0 & -1 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 1 & 1 \\ 0 & -1 & -1 & 1 & 1 & -2 & 1 & 2 \\ 0 & -2 & -1 & 2 & 0 & -2 & 2 & 2 \\ 0 & -3 & -2 & 3 & 1 & -3 & 2 & 3 \\ 0 & -2 & -2 & 2 & 1 & -2 & 2 & 2 \\ 0 & -2 & -2 & 2 & 1 & -2 & 2 & 1 \\ 0 & -1 & -1 & 1 & 1 & -2 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 & 0 & -1 & 2 \\ 0 & 1 & -1 & -1 & 0 & 1 & -1 & 2 \\ 1 & 2 & -2 & -2 & 1 & 1 & -2 & 3 \\ 1 & 2 & -2 & -1 & 0 & 1 & -2 & 3 \\ 1 & 1 & -2 & 0 & 0 & 0 & -1 & 2 \\ 0 & 1 & -1 & 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 1 & 1 & -2 & 1 \\ 0 & 1 & 0 & -2 & 2 & 0 & -2 & 2 \\ 0 & 1 & 1 & -3 & 2 & 1 & -3 & 2 \\ 1 & 2 & 0 & -4 & 3 & 1 & -4 & 3 \\ 1 & 2 & 0 & -3 & 2 & 1 & -4 & 3 \\ 1 & 1 & 0 & -2 & 1 & 1 & -3 & 3 \\ 0 & 1 & 0 & -1 & 0 & 1 & -2 & 2 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 2 & -1 & -1 & 0 \\ 1 & 2 & -2 & -2 & 3 & -1 & -2 & 1 \\ 1 & 2 & -2 & -1 & 2 & -1 & -2 & 1 \\ 1 & 1 & -1 & -1 & 2 & -1 & -2 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 & -2 & 0 & 2 \\ 0 & -2 & 1 & 0 & 2 & -2 & 0 & 2 \\ 0 & -3 & 0 & 1 & 3 & -3 & 0 & 3 \\ 0 & -2 & 0 & 1 & 2 & -2 & -1 & 3 \\ 0 & -2 & 0 & 1 & 1 & -1 & -1 & 3 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 1 & -2 & 1 & 0 \\ 0 & -1 & -1 & 1 & 2 & -3 & 1 & 1 \\ 0 & -2 & -1 & 2 & 2 & -4 & 2 & 0 \\ 0 & -3 & -2 & 3 & 3 & -5 & 2 & 1 \\ 0 & -2 & -2 & 3 & 2 & -4 & 1 & 1 \\ 0 & -2 & -1 & 2 & 2 & -3 & 0 & 1 \\ 0 & -1 & 0 & 1 & 1 & -2 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & -1 & 1 & 1 \\ 0 & -1 & -1 & 1 & 1 & -2 & 1 & 2 \\ 0 & -2 & -1 & 2 & 0 & -2 & 2 & 2 \\ 0 & -3 & -2 & 3 & 1 & -3 & 2 & 3 \\ 0 & -2 & -2 & 3 & 0 & -2 & 1 & 3 \\ 0 & -2 & -2 & 3 & 0 & -2 & 1 & 2 \\ 0 & -1 & -1 & 2 & 0 & -2 & 1 & 1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 & 0 & -1 & 2 \\ 0 & 1 & -1 & -1 & 0 & 1 & -1 & 2 \\ 1 & 2 & -2 & -2 & 1 & 1 & -2 & 3 \\ 1 & 2 & -2 & -2 & 1 & 1 & -1 & 2 \\ 1 & 1 & -2 & -1 & 1 & 0 & 0 & 1 \\ 0 & 1 & -1 & -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 1 & 1 & -2 & 1 \\ 0 & 1 & 0 & -2 & 2 & 0 & -2 & 2 \\ 0 & 1 & 1 & -3 & 2 & 1 & -3 & 2 \\ 1 & 2 & 0 & -4 & 3 & 1 & -4 & 3 \\ 1 & 2 & 0 & -4 & 3 & 1 & -3 & 2 \\ 1 & 1 & 0 & -3 & 2 & 1 & -2 & 2 \\ 0 & 1 & 0 & -2 & 1 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 2 & -1 & -1 & 0 \\ 1 & 2 & -2 & -2 & 3 & -1 & -2 & 1 \\ 1 & 2 & -2 & -2 & 3 & -1 & -1 & 0 \\ 1 & 1 & -1 & -2 & 3 & -1 & -1 & 0 \\ 0 & 1 & 0 & -2 & 2 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -2 & 0 & 1 & 1 & -1 & 1 & -1 \\ 0 & -3 & -1 & 1 & 2 & -1 & 1 & -1 \\ -1 & -3 & -1 & 1 & 3 & -2 & 2 & -2 \\ -1 & -5 & -1 & 1 & 4 & -2 & 3 & -3 \\ 0 & -4 & -1 & 1 & 3 & -2 & 3 & -3 \\ 0 & -3 & 0 & 0 & 3 & -2 & 2 & -2 \\ 0 & -2 & 0 & 0 & 2 & -1 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -2 & 0 & 1 & 0 & 0 & 1 & 0 \\ 0 & -3 & -1 & 1 & 1 & 0 & 1 & 0 \\ -1 & -3 & -1 & 1 & 1 & 0 & 2 & 0 \\ -1 & -5 & -1 & 1 & 2 & 0 & 3 & -1 \\ 0 & -4 & -1 & 1 & 1 & 0 & 3 & -1 \\ 0 & -3 & -1 & 1 & 1 & -1 & 3 & -1 \\ 0 & -2 & -1 & 1 & 1 & -1 & 2 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -2 & 1 & 0 & 1 & 0 & 0 & 0 \\ 0 & -3 & 0 & 0 & 2 & 0 & 0 & 0 \\ -1 & -3 & 1 & -1 & 3 & 0 & 0 & 0 \\ -1 & -5 & 1 & -1 & 4 & 0 & 1 & -1 \\ 0 & -4 & 1 & -1 & 3 & 0 & 1 & -1 \\ 0 & -3 & 1 & -1 & 2 & 0 & 1 & 0 \\ 0 & -2 & 0 & 0 & 1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 1 & -1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 & 0 & -2 & 2 \\ 2 & 0 & 1 & -1 & 0 & 0 & -3 & 3 \\ 3 & -1 & 1 & 0 & -1 & 0 & -4 & 4 \\ 2 & -1 & 1 & 0 & -1 & 1 & -4 & 3 \\ 1 & -1 & 1 & 0 & -1 & 1 & -3 & 3 \\ 1 & 0 & 0 & 0 & -1 & 1 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 2 & -1 & -1 & 1 & 0 & -1 & -1 & 1 \\ 2 & 0 & -1 & 1 & 0 & -2 & -1 & 1 \\ 3 & -1 & -1 & 2 & -1 & -2 & -2 & 2 \\ 2 & -1 & -1 & 2 & -1 & -1 & -2 & 1 \\ 1 & -1 & 0 & 1 & 0 & -1 & -2 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -2 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & -1 & 0 & 0 & 1 \\ 2 & -1 & -1 & 1 & -1 & 0 & -1 & 2 \\ 2 & 0 & -1 & 1 & -2 & 0 & -1 & 3 \\ 3 & -1 & -1 & 2 & -3 & 0 & -2 & 4 \\ 2 & -1 & -1 & 2 & -3 & 1 & -2 & 3 \\ 1 & -1 & -1 & 2 & -2 & 0 & -1 & 2 \\ 1 & 0 & -1 & 1 & -1 & 0 & -1 & 1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & -1 & 1 & 0 & 1 & -2 \\ 2 & 1 & -1 & -1 & 1 & 0 & 1 & -2 \\ 2 & 1 & 0 & -2 & 2 & -1 & 2 & -3 \\ 4 & 1 & -1 & -2 & 2 & -1 & 3 & -4 \\ 3 & 0 & -1 & -1 & 2 & -1 & 2 & -3 \\ 2 & 0 & 0 & -1 & 1 & 0 & 1 & -2 \\ 1 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \\ 1 & 0 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 0 & 2 & -2 \\ 2 & 1 & -2 & 0 & 0 & 0 & 2 & -2 \\ 2 & 1 & -2 & 0 & 0 & -1 & 4 & -3 \\ 4 & 1 & -3 & 0 & 0 & -1 & 5 & -4 \\ 3 & 0 & -3 & 1 & 0 & -1 & 4 & -3 \\ 2 & 0 & -2 & 1 & 0 & -1 & 3 & -3 \\ 1 & 0 & -1 & 0 & 1 & -1 & 2 & -2 \\ 1 & 0 & -1 & 0 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 0 & 1 & 1 & -1 \\ 2 & 1 & -1 & -1 & 0 & 1 & 1 & -1 \\ 2 & 1 & 0 & -2 & 0 & 1 & 2 & -1 \\ 4 & 1 & -1 & -2 & 0 & 1 & 3 & -2 \\ 3 & 0 & -1 & -1 & 0 & 1 & 2 & -1 \\ 2 & 0 & -1 & 0 & -1 & 1 & 2 & -1 \\ 1 & 0 & -1 & 0 & 0 & 0 & 2 & -1 \\ 1 & 0 & -1 & 0 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 2 & -2 & 1 \\ 0 & 1 & -1 & 1 & -2 & 3 & -3 & 1 \\ -1 & 1 & 0 & 1 & -3 & 4 & -4 & 2 \\ -1 & 1 & -1 & 2 & -4 & 6 & -6 & 2 \\ 0 & 1 & -1 & 1 & -3 & 5 & -5 & 2 \\ 0 & 1 & -1 & 1 & -3 & 4 & -3 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -2 & 1 \\ 0 & 0 & -1 & 1 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -1 & 1 & -2 & 0 \\ 0 & 1 & -1 & 1 & -1 & 2 & -3 & 0 \\ -1 & 1 & 0 & 1 & -1 & 2 & -4 & 0 \\ -1 & 1 & -1 & 2 & -2 & 4 & -6 & 0 \\ 0 & 1 & -1 & 1 & -1 & 3 & -5 & 0 \\ 0 & 1 & 0 & 0 & -1 & 3 & -4 & 0 \\ 0 & 1 & 0 & 0 & -1 & 2 & -3 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 & -2 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 1 & -1 & 0 \\ 0 & 1 & -2 & 2 & -2 & 2 & -2 & 0 \\ -1 & 1 & -2 & 3 & -3 & 2 & -2 & 0 \\ -1 & 1 & -3 & 4 & -4 & 4 & -4 & 0 \\ 0 & 1 & -3 & 3 & -3 & 3 & -3 & 0 \\ 0 & 1 & -2 & 2 & -2 & 2 & -2 & -1 \\ 0 & 1 & -1 & 1 & -1 & 1 & -2 & 0 \\ 0 & 0 & -1 & 1 & 0 & 0 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 1 & -1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 & 0 & 2 & -2 \\ 0 & -1 & -1 & 3 & -2 & -1 & 3 & -2 \\ -1 & -2 & 0 & 4 & -3 & -1 & 4 & -3 \\ -1 & -2 & 0 & 3 & -2 & -1 & 4 & -3 \\ -1 & -1 & 0 & 2 & -1 & -1 & 3 & -3 \\ 0 & -1 & 0 & 1 & 0 & -1 & 2 & -2 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & -2 & 1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -2 & 1 & 1 & 0 \\ -1 & -2 & 2 & 2 & -3 & 1 & 2 & -1 \\ -1 & -2 & 2 & 1 & -2 & 1 & 2 & -1 \\ -1 & -1 & 1 & 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 0 & 1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 & 0 & 1 & -2 \\ 0 & -1 & 1 & 1 & 0 & -1 & 1 & -2 \\ -1 & -2 & 2 & 2 & -1 & -1 & 2 & -3 \\ -1 & -2 & 2 & 1 & 0 & -1 & 2 & -3 \\ -1 & -1 & 2 & 0 & 0 & 0 & 1 & -2 \\ 0 & -1 & 1 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 1 & -1 & -1 \\ 0 & 1 & 1 & -1 & -1 & 2 & -1 & -2 \\ 0 & 2 & 1 & -2 & 0 & 2 & -2 & -2 \\ 0 & 3 & 2 & -3 & -1 & 3 & -2 & -3 \\ 0 & 2 & 2 & -2 & -1 & 2 & -2 & -2 \\ 0 & 2 & 2 & -2 & -1 & 2 & -2 & -1 \\ 0 & 1 & 1 & -1 & -1 & 2 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 & 2 & 0 & -2 \\ 0 & 2 & -1 & 0 & -2 & 2 & 0 & -2 \\ 0 & 3 & 0 & -1 & -3 & 3 & 0 & -3 \\ 0 & 2 & 0 & 0 & -3 & 2 & 0 & -2 \\ 0 & 2 & 0 & 0 & -2 & 1 & 0 & -2 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & -1 & 2 & -1 & 0 \\ 0 & 1 & 1 & -1 & -2 & 3 & -1 & -1 \\ 0 & 2 & 1 & -2 & -2 & 4 & -2 & 0 \\ 0 & 3 & 2 & -3 & -3 & 5 & -2 & -1 \\ 0 & 2 & 2 & -2 & -3 & 4 & -2 & 0 \\ 0 & 2 & 1 & -1 & -3 & 3 & -1 & 0 \\ 0 & 1 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 1 & -1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 & 0 & 2 & -2 \\ 0 & -1 & -1 & 3 & -2 & -1 & 3 & -2 \\ -1 & -2 & 0 & 4 & -3 & -1 & 4 & -3 \\ -1 & -2 & 0 & 4 & -3 & -1 & 3 & -2 \\ -1 & -1 & 0 & 3 & -2 & -1 & 2 & -2 \\ 0 & -1 & 0 & 2 & -1 & -1 & 1 & -1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & -2 & 1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -2 & 1 & 1 & 0 \\ -1 & -2 & 2 & 2 & -3 & 1 & 2 & -1 \\ -1 & -2 & 2 & 2 & -3 & 1 & 1 & 0 \\ -1 & -1 & 1 & 2 & -3 & 1 & 1 & 0 \\ 0 & -1 & 0 & 2 & -2 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 & 0 & 1 & -2 \\ 0 & -1 & 1 & 1 & 0 & -1 & 1 & -2 \\ -1 & -2 & 2 & 2 & -1 & -1 & 2 & -3 \\ -1 & -2 & 2 & 2 & -1 & -1 & 1 & -2 \\ -1 & -1 & 2 & 1 & -1 & 0 & 0 & -1 \\ 0 & -1 & 1 & 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 1 & -1 & -1 \\ 0 & 1 & 1 & -1 & -1 & 2 & -1 & -2 \\ 0 & 2 & 1 & -2 & 0 & 2 & -2 & -2 \\ 0 & 3 & 2 & -3 & -1 & 3 & -2 & -3 \\ 0 & 2 & 2 & -3 & 0 & 2 & -1 & -3 \\ 0 & 2 & 2 & -3 & 0 & 2 & -1 & -2 \\ 0 & 1 & 1 & -2 & 0 & 2 & -1 & -1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 & 2 & 0 & -2 \\ 0 & 2 & -1 & 0 & -2 & 2 & 0 & -2 \\ 0 & 3 & 0 & -1 & -3 & 3 & 0 & -3 \\ 0 & 2 & 0 & -1 & -2 & 2 & 1 & -3 \\ 0 & 2 & 0 & -1 & -1 & 1 & 1 & -3 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & -1 & 2 & -1 & 0 \\ 0 & 1 & 1 & -1 & -2 & 3 & -1 & -1 \\ 0 & 2 & 1 & -2 & -2 & 4 & -2 & 0 \\ 0 & 3 & 2 & -3 & -3 & 5 & -2 & -1 \\ 0 & 2 & 2 & -3 & -2 & 4 & -1 & -1 \\ 0 & 2 & 1 & -2 & -2 & 3 & 0 & -1 \\ 0 & 1 & 0 & -1 & -1 & 2 & 0 & -1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & -1 & 1 & 0 & -1 & 0 \\ 0 & -1 & 1 & -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -2 & 2 & 0 & -2 & 0 \\ 0 & -1 & 1 & -2 & 2 & 1 & -3 & 0 \\ 0 & -1 & 1 & -2 & 2 & 1 & -2 & -1 \\ 0 & -1 & 1 & -2 & 2 & 1 & -2 & 0 \\ 0 & 0 & 1 & -2 & 1 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 1 & -1 & 0 \\ 0 & -1 & -1 & 0 & 0 & 1 & 0 & -1 \\ 0 & -1 & -1 & 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & -1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -2 & 0 & 2 & -2 & 2 \\ 0 & -1 & 1 & -2 & 0 & 3 & -3 & 2 \\ 0 & -1 & 1 & -2 & 0 & 3 & -2 & 1 \\ 0 & -1 & 0 & -1 & 0 & 2 & -1 & 1 \\ 0 & 0 & 0 & -1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & -3 & 1 & 1 & 0 & -1 & 1 & 1 \\ 0 & -3 & 1 & 1 & 0 & -1 & 1 & 2 \\ 1 & -5 & 1 & 2 & 0 & -2 & 2 & 2 \\ 1 & -4 & 1 & 2 & -1 & -1 & 1 & 2 \\ 1 & -3 & 0 & 2 & -1 & -1 & 1 & 2 \\ 0 & -2 & 0 & 2 & -1 & -1 & 1 & 1 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 1 & 1 & -1 & 0 & 0 \\ 0 & -3 & 1 & 1 & 1 & -2 & 1 & 0 \\ 0 & -3 & 1 & 1 & 2 & -3 & 1 & 0 \\ 1 & -5 & 1 & 2 & 2 & -4 & 2 & 0 \\ 1 & -4 & 1 & 2 & 1 & -3 & 1 & 0 \\ 1 & -3 & 1 & 1 & 1 & -2 & 0 & 1 \\ 0 & -2 & 1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & -1 & 2 & 0 & -1 & 1 & 0 \\ 0 & -3 & 0 & 2 & 0 & -2 & 2 & 0 \\ 0 & -3 & -1 & 3 & 0 & -3 & 3 & 0 \\ 1 & -5 & -1 & 4 & 0 & -4 & 4 & 0 \\ 1 & -4 & -1 & 4 & -1 & -3 & 3 & 0 \\ 1 & -3 & -1 & 3 & 0 & -3 & 2 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -2 & 0 & 1 & 1 & 0 & -1 & 0 \\ -2 & -3 & 1 & 1 & 1 & 0 & -1 & 0 \\ -3 & -3 & 1 & 1 & 2 & 0 & -2 & 0 \\ -4 & -5 & 1 & 2 & 2 & 1 & -3 & 0 \\ -3 & -4 & 1 & 1 & 2 & 1 & -2 & -1 \\ -2 & -3 & 1 & 0 & 2 & 1 & -2 & 0 \\ -2 & -2 & 1 & 0 & 1 & 1 & -1 & 0 \\ -1 & -1 & 1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -2 & -1 & 2 & 0 & 0 & 0 & 0 \\ -2 & -3 & 0 & 2 & 0 & 0 & 0 & 0 \\ -3 & -3 & -1 & 3 & 0 & 0 & 0 & 0 \\ -4 & -5 & -1 & 4 & 0 & 1 & -1 & 0 \\ -3 & -4 & -1 & 3 & 0 & 1 & 0 & -1 \\ -2 & -3 & -1 & 2 & 1 & 0 & 0 & -1 \\ -2 & -2 & 0 & 1 & 1 & 0 & 0 & -1 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -2 & 0 & 1 & 0 & 1 & -1 & 1 \\ -2 & -3 & 1 & 1 & 0 & 1 & -1 & 1 \\ -3 & -3 & 1 & 1 & 0 & 2 & -2 & 2 \\ -4 & -5 & 1 & 2 & 0 & 3 & -3 & 2 \\ -3 & -4 & 1 & 1 & 0 & 3 & -2 & 1 \\ -2 & -3 & 0 & 1 & 0 & 2 & -1 & 1 \\ -2 & -2 & 0 & 1 & 0 & 1 & 0 & 0 \\ -1 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 2 & 0 & 0 & -1 & 0 & 0 & 0 & 1 \\ 2 & -1 & 1 & -1 & 0 & -1 & 1 & 1 \\ 3 & 0 & 1 & -2 & 0 & -1 & 1 & 2 \\ 5 & -1 & 1 & -2 & 0 & -2 & 2 & 2 \\ 4 & -1 & 1 & -1 & -1 & -1 & 1 & 2 \\ 3 & -1 & 0 & 0 & -1 & -1 & 1 & 2 \\ 2 & 0 & 0 & 0 & -1 & -1 & 1 & 1 \\ 1 & 0 & 0 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & 0 & -1 & 1 & -1 & 0 & 0 \\ 2 & -1 & 1 & -1 & 1 & -2 & 1 & 0 \\ 3 & 0 & 1 & -2 & 2 & -3 & 1 & 0 \\ 5 & -1 & 1 & -2 & 2 & -4 & 2 & 0 \\ 4 & -1 & 1 & -1 & 1 & -3 & 1 & 0 \\ 3 & -1 & 1 & -1 & 1 & -2 & 0 & 1 \\ 2 & 0 & 1 & -1 & 0 & -1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 0 & 0 & -1 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 & -2 & 2 & 0 \\ 3 & 0 & -1 & 0 & 0 & -3 & 3 & 0 \\ 5 & -1 & -1 & 0 & 0 & -4 & 4 & 0 \\ 4 & -1 & -1 & 1 & -1 & -3 & 3 & 0 \\ 3 & -1 & -1 & 1 & 0 & -3 & 2 & 0 \\ 2 & 0 & 0 & 0 & 0 & -2 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 & 1 & -1 & -1 \\ -2 & 1 & 1 & 1 & -2 & 1 & -1 & -1 \\ -2 & 1 & 0 & 2 & -2 & 1 & -2 & -1 \\ -3 & 1 & 1 & 3 & -4 & 2 & -3 & -1 \\ -3 & 0 & 1 & 3 & -3 & 1 & -2 & -1 \\ -2 & 0 & 1 & 2 & -2 & 1 & -2 & -1 \\ -2 & 0 & 1 & 1 & -1 & 1 & -2 & 0 \\ -1 & 0 & 1 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & -2 & 2 & -1 & 0 \\ -2 & 1 & 1 & 1 & -3 & 2 & -1 & 0 \\ -2 & 1 & 0 & 2 & -4 & 3 & -2 & 1 \\ -3 & 1 & 1 & 3 & -6 & 4 & -3 & 1 \\ -3 & 0 & 1 & 3 & -5 & 3 & -2 & 1 \\ -2 & 0 & 0 & 3 & -4 & 2 & -1 & 0 \\ -2 & 0 & 0 & 2 & -2 & 1 & -1 & 0 \\ -1 & 0 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 2 & -2 & 0 \\ -2 & 1 & 2 & 0 & -2 & 2 & -2 & 0 \\ -2 & 1 & 2 & 0 & -2 & 3 & -4 & 1 \\ -3 & 1 & 3 & 1 & -4 & 4 & -5 & 1 \\ -3 & 0 & 3 & 1 & -3 & 3 & -4 & 1 \\ -2 & 0 & 2 & 1 & -3 & 3 & -3 & 1 \\ -2 & 0 & 1 & 1 & -2 & 2 & -2 & 1 \\ -1 & 0 & 1 & 0 & -1 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 1 & 2 & -2 & 0 & 0 & 2 & -2 \\ 1 & 1 & 2 & -3 & 1 & 0 & 2 & -2 \\ 1 & 1 & 3 & -4 & 1 & 0 & 4 & -4 \\ 1 & 1 & 3 & -4 & 1 & 0 & 3 & -3 \\ 1 & 1 & 2 & -3 & 0 & 1 & 2 & -2 \\ 1 & 1 & 1 & -2 & 0 & 0 & 2 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & -1 & 2 & -2 \\ 0 & 1 & 1 & -1 & 0 & -1 & 3 & -3 \\ 1 & 1 & 0 & -1 & 1 & -2 & 4 & -4 \\ 1 & 1 & 1 & -2 & 1 & -2 & 6 & -6 \\ 1 & 1 & 1 & -2 & 1 & -2 & 5 & -5 \\ 1 & 1 & 1 & -2 & 1 & -1 & 3 & -4 \\ 1 & 1 & 1 & -2 & 1 & -1 & 2 & -2 \\ 0 & 0 & 1 & -1 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & -1 & 0 & 2 & -1 \\ 0 & 1 & 1 & -1 & -1 & 0 & 3 & -2 \\ 1 & 1 & 0 & -1 & -1 & 0 & 4 & -2 \\ 1 & 1 & 1 & -2 & -1 & 0 & 6 & -4 \\ 1 & 1 & 1 & -2 & -1 & 0 & 5 & -3 \\ 1 & 1 & 0 & -1 & -1 & 0 & 4 & -3 \\ 1 & 1 & 0 & -1 & 0 & -1 & 3 & -2 \\ 0 & 0 & 0 & 0 & 0 & -1 & 2 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 1 & 0 & -2 \\ -2 & 1 & 1 & -1 & 0 & 1 & 1 & -3 \\ -2 & 1 & 0 & -1 & 1 & 1 & 1 & -4 \\ -3 & 1 & 1 & -2 & 1 & 2 & 2 & -6 \\ -3 & 0 & 1 & -1 & 1 & 1 & 2 & -5 \\ -2 & 0 & 1 & -1 & 1 & 1 & 1 & -4 \\ -2 & 0 & 1 & -1 & 1 & 1 & 0 & -2 \\ -1 & 0 & 1 & -1 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & -1 & 2 & 0 & -1 \\ -2 & 1 & 1 & -1 & -1 & 2 & 1 & -2 \\ -2 & 1 & 0 & -1 & -1 & 3 & 1 & -2 \\ -3 & 1 & 1 & -2 & -1 & 4 & 2 & -4 \\ -3 & 0 & 1 & -1 & -1 & 3 & 2 & -3 \\ -2 & 0 & 0 & 0 & -1 & 2 & 2 & -3 \\ -2 & 0 & 0 & 0 & 0 & 1 & 1 & -2 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 2 & -1 & -1 \\ -2 & 1 & 2 & -2 & 0 & 2 & 0 & -2 \\ -2 & 1 & 2 & -3 & 1 & 3 & -1 & -2 \\ -3 & 1 & 3 & -4 & 1 & 4 & 0 & -4 \\ -3 & 0 & 3 & -3 & 1 & 3 & 0 & -3 \\ -2 & 0 & 2 & -2 & 0 & 3 & 0 & -2 \\ -2 & 0 & 1 & -1 & 0 & 2 & 0 & -1 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 1 & 0 & -1 & 0 & 0 & 0 \\ 0 & 1 & 2 & 0 & -2 & 0 & 0 & 0 \\ 1 & 1 & 2 & 0 & -2 & 0 & -1 & 1 \\ 1 & 1 & 3 & 1 & -4 & 0 & -1 & 1 \\ 1 & 1 & 3 & 0 & -3 & 0 & -1 & 1 \\ 1 & 1 & 2 & 0 & -3 & 1 & -1 & 1 \\ 1 & 1 & 1 & 0 & -2 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 1 & -1 & -1 & 1 & -1 \\ 0 & 1 & 1 & 1 & -2 & -1 & 1 & -1 \\ 1 & 1 & 0 & 2 & -2 & -2 & 1 & -1 \\ 1 & 1 & 1 & 3 & -4 & -2 & 1 & -1 \\ 1 & 1 & 1 & 2 & -3 & -2 & 1 & -1 \\ 1 & 1 & 1 & 1 & -2 & -1 & 0 & -1 \\ 1 & 1 & 1 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 1 & -2 & 0 & 1 & 0 \\ 0 & 1 & 1 & 1 & -3 & 0 & 1 & 0 \\ 1 & 1 & 0 & 2 & -4 & 0 & 1 & 1 \\ 1 & 1 & 1 & 3 & -6 & 0 & 1 & 1 \\ 1 & 1 & 1 & 2 & -5 & 0 & 1 & 1 \\ 1 & 1 & 0 & 2 & -4 & 0 & 1 & 0 \\ 1 & 1 & 0 & 1 & -2 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}.$$

The character table of G^{s109}:

										10										20						
$\chi_{109}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(2)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	
$\chi_{109}^{(3)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	
$\chi_{109}^{(4)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	
$\chi_{109}^{(5)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	
$\chi_{109}^{(6)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	
$\chi_{109}^{(7)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	
$\chi_{109}^{(8)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	
$\chi_{109}^{(9)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	
$\chi_{109}^{(10)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{109}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{109}^{(12)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{109}^{(13)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{109}^{(14)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{109}^{(15)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{109}^{(16)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{109}^{(17)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A	/A	1	-1	-A	-/A	-/A	-1	-A	A	/A	1	-1	
$\chi_{109}^{(18)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A	A	1	-1	-/A	-A	-A	-1	-/A	/A	A	1	-1	
$\chi_{109}^{(19)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A	/A	1	-1	-A	-/A	-/A	-1	-A	A	/A	1	-1	
$\chi_{109}^{(20)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A	A	1	-1	-/A	-A	-A	-1	-/A	/A	A	1	-1	
$\chi_{109}^{(21)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A	/A	1	-1	-A	-/A	-/A	-1	-A	A	/A	1	-1	
$\chi_{109}^{(22)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A	A	1	-1	-/A	-A	-A	-1	-/A	/A	A	1	-1	
$\chi_{109}^{(23)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A	/A	1	-1	-A	-/A	-/A	-1	-A	A	/A	1	-1	
$\chi_{109}^{(24)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A	A	1	-1	-/A	-A	-A	-1	-/A	/A	A	1	-1	
$\chi_{109}^{(25)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A	/A	1	-1	-A	-/A	/A	1	A	-A	-/A	-1	1	
$\chi_{109}^{(26)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A	A	1	-1	-/A	-A	A	1	/A	-/A	-A	-1	1	
$\chi_{109}^{(27)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A	/A	1	-1	-A	-/A	/A	1	A	-A	-/A	-1	1	
$\chi_{109}^{(28)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A	A	1	-1	-/A	-A	A	1	/A	-/A	-A	-1	1	
$\chi_{109}^{(29)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A	/A	1	-1	-A	-/A	/A	1	A	-A	-/A	-1	1	
$\chi_{109}^{(30)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A	A	1	-1	-/A	-A	A	1	/A	-/A	-A	-1	1	
$\chi_{109}^{(31)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A	/A	1	-1	-A	-/A	/A	1	A	-A	-/A	-1	1	
$\chi_{109}^{(32)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A	A	1	-1	-/A	-A	A	1	/A	-/A	-A	-1	1	
$\chi_{109}^{(33)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	-1	
$\chi_{109}^{(34)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	-1	
$\chi_{109}^{(35)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	-1	
$\chi_{109}^{(36)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	-1	
$\chi_{109}^{(37)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	-1	
$\chi_{109}^{(38)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	-1	
$\chi_{109}^{(39)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	-1	
$\chi_{109}^{(40)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	-1	
$\chi_{109}^{(41)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	/A	1	A	A	/A	1	1	
$\chi_{109}^{(42)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	A	1	/A	/A	A	1	1	
$\chi_{109}^{(43)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	/A	1	A	A	/A	1	1	
$\chi_{109}^{(44)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	A	1	/A	/A	A	1	1	
$\chi_{109}^{(45)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	/A	1	A	A	/A	1	1	

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$\chi_{109}^{(46)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	A	1	/A	/A	A	1	1
$\chi_{109}^{(47)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	/A	1	A	A	/A	1	1
$\chi_{109}^{(48)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	A	1	/A	/A	A	1	1
$\chi_{109}^{(49)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-2
$\chi_{109}^{(50)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-2
$\chi_{109}^{(51)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	2
$\chi_{109}^{(52)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	2
$\chi_{109}^{(53)}$	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2
$\chi_{109}^{(54)}$	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2
$\chi_{109}^{(55)}$	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-2
$\chi_{109}^{(56)}$	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-2
$\chi_{109}^{(57)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	-A	-/A	-1	1	A	/A	/A	1	A	-A	-/A	-1	-2
$\chi_{109}^{(58)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-/A	-A	-1	1	/A	A	A	1	/A	-/A	-A	-1	-2
$\chi_{109}^{(59)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	-A	-/A	-1	1	A	/A	/A	1	A	-A	-/A	-1	-2
$\chi_{109}^{(60)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-/A	-A	-1	1	/A	A	A	1	/A	-/A	-A	-1	-2
$\chi_{109}^{(61)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	-A	-/A	-1	1	A	/A	-/A	-1	-A	A	/A	1	2
$\chi_{109}^{(62)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-/A	-A	-1	1	/A	A	-A	-1	-/A	/A	A	1	2
$\chi_{109}^{(63)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	-A	-/A	-1	1	A	/A	-/A	-1	-A	A	/A	1	2
$\chi_{109}^{(64)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-/A	-A	-1	1	/A	A	-A	-1	-/A	/A	A	1	2
$\chi_{109}^{(65)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	2
$\chi_{109}^{(66)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	2
$\chi_{109}^{(67)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	2
$\chi_{109}^{(68)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	2
$\chi_{109}^{(69)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1	-2
$\chi_{109}^{(70)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1	-2
$\chi_{109}^{(71)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-A	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1	-2
$\chi_{109}^{(72)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-/A	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1	-2
$\chi_{109}^{(73)}$	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(74)}$	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(75)}$	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(76)}$	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(77)}$	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(78)}$	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(79)}$	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(80)}$	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(81)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(82)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(83)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(84)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(85)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(86)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(87)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(88)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(89)}$	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(90)}$	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-3

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$\chi_{109}^{(91)}$	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(92)}$	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(93)}$	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(94)}$	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(95)}$	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(96)}$	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(97)}$	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(98)}$	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(99)}$	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(100)}$	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(101)}$	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(102)}$	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(103)}$	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(104)}$	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(105)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(106)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(107)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(108)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(109)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(110)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(111)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(112)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	3
$\chi_{109}^{(113)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(114)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(115)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(116)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(117)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(118)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(119)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	-3
$\chi_{109}^{(120)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	-3

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$\chi_{109}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(2)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1
$\chi_{109}^{(3)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1
$\chi_{109}^{(4)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1
$\chi_{109}^{(5)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1
$\chi_{109}^{(6)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{109}^{(7)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{109}^{(8)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{109}^{(9)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{109}^{(10)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{109}^{(11)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{109}^{(12)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{109}^{(13)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{109}^{(14)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(15)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

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$\chi_{109}^{(16)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(17)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	A
$\chi_{109}^{(18)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	/A
$\chi_{109}^{(19)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	A
$\chi_{109}^{(20)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	/A
$\chi_{109}^{(21)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	-A
$\chi_{109}^{(22)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	-/A
$\chi_{109}^{(23)}$	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	-A
$\chi_{109}^{(24)}$	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	-/A
$\chi_{109}^{(25)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	-A
$\chi_{109}^{(26)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	-/A
$\chi_{109}^{(27)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	-A
$\chi_{109}^{(28)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	-/A
$\chi_{109}^{(29)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	A
$\chi_{109}^{(30)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	/A
$\chi_{109}^{(31)}$	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	A
$\chi_{109}^{(32)}$	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	/A
$\chi_{109}^{(33)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	-A	-/A	-1	A
$\chi_{109}^{(34)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	-/A	-A	-1	/A
$\chi_{109}^{(35)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	-A	-/A	-1	A
$\chi_{109}^{(36)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	-/A	-A	-1	/A
$\chi_{109}^{(37)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	-A
$\chi_{109}^{(38)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	-/A
$\chi_{109}^{(39)}$	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	-A
$\chi_{109}^{(40)}$	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	-/A
$\chi_{109}^{(41)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	-A	-/A	-1	-A
$\chi_{109}^{(42)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	-/A	-A	-1	-/A
$\chi_{109}^{(43)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	-A	-/A	-1	-A
$\chi_{109}^{(44)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	-/A	-A	-1	-/A
$\chi_{109}^{(45)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	A
$\chi_{109}^{(46)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	/A
$\chi_{109}^{(47)}$	A	/A	/A	1	A	1	A	/A	/A	1	A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	A
$\chi_{109}^{(48)}$	/A	A	A	1	/A	1	/A	A	A	1	/A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	/A
$\chi_{109}^{(49)}$	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(50)}$	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(51)}$	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(52)}$	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(53)}$	2	2	2	2	2	2	2	2	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(54)}$	2	2	2	2	2	2	2	2	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(55)}$	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(56)}$	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(57)}$	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(58)}$	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(59)}$	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(60)}$	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{109}^{(61)}$	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(62)}$	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(63)}$	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(64)}$	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(65)}$	B	/B	/B	2	B	2	B	/B	/B	2	B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(66)}$	/B	B	B	2	/B	2	/B	B	B	2	/B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(67)}$	B	/B	/B	2	B	2	B	/B	/B	2	B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(68)}$	/B	B	B	2	/B	2	/B	B	B	2	/B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(69)}$	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(70)}$	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(71)}$	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(72)}$	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(73)}$	-3	-3	3	3	3	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{109}^{(74)}$	-3	-3	3	3	3	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{109}^{(75)}$	-3	-3	3	3	3	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{109}^{(76)}$	-3	-3	3	3	3	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{109}^{(77)}$	3	3	-3	-3	-3	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1
$\chi_{109}^{(78)}$	3	3	-3	-3	-3	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1
$\chi_{109}^{(79)}$	3	3	-3	-3	-3	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1
$\chi_{109}^{(80)}$	3	3	-3	-3	-3	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1
$\chi_{109}^{(81)}$	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{109}^{(82)}$	3	3	3	3	3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(83)}$	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{109}^{(84)}$	3	3	3	3	3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(85)}$	-3	-3	-3	-3	-3	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{109}^{(86)}$	-3	-3	-3	-3	-3	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1
$\chi_{109}^{(87)}$	-3	-3	-3	-3	-3	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{109}^{(88)}$	-3	-3	-3	-3	-3	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1
$\chi_{109}^{(89)}$	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	A
$\chi_{109}^{(90)}$	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	/A
$\chi_{109}^{(91)}$	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	-A
$\chi_{109}^{(92)}$	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-/A
$\chi_{109}^{(93)}$	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	A
$\chi_{109}^{(94)}$	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	/A
$\chi_{109}^{(95)}$	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	-A
$\chi_{109}^{(96)}$	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-/A
$\chi_{109}^{(97)}$	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	A
$\chi_{109}^{(98)}$	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	/A
$\chi_{109}^{(99)}$	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	-A
$\chi_{109}^{(100)}$	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	-/A
$\chi_{109}^{(101)}$	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	A
$\chi_{109}^{(102)}$	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	/A
$\chi_{109}^{(103)}$	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	-A
$\chi_{109}^{(104)}$	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	-/A
$\chi_{109}^{(105)}$	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	A

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$\chi_{109}^{(106)}$	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	/A
$\chi_{109}^{(107)}$	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	/A	1	A	A	/A	1	-/A	-1	-A	-A	-/A	-1	-A
$\chi_{109}^{(108)}$	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	A	1	/A	/A	A	1	-A	-1	-/A	-/A	-A	-1	-/A
$\chi_{109}^{(109)}$	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	A
$\chi_{109}^{(110)}$	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	/A
$\chi_{109}^{(111)}$	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	/A	1	A	A	/A	1	-/A	-1	-A	-A	-/A	-1	-A
$\chi_{109}^{(112)}$	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	A	1	/A	/A	A	1	-A	-1	-/A	-/A	-A	-1	-/A
$\chi_{109}^{(113)}$	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	/A	1	A	A	/A	1	-/A	-1	-A	-A	-/A	-1	A
$\chi_{109}^{(114)}$	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	A	1	/A	/A	A	1	-A	-1	-/A	-/A	-A	-1	/A
$\chi_{109}^{(115)}$	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	-A
$\chi_{109}^{(116)}$	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	-/A
$\chi_{109}^{(117)}$	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	/A	1	A	A	/A	1	-/A	-1	-A	-A	-/A	-1	A
$\chi_{109}^{(118)}$	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	A	1	/A	/A	A	1	-A	-1	-/A	-/A	-A	-1	/A
$\chi_{109}^{(119)}$	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	-A
$\chi_{109}^{(120)}$	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	-/A

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$\chi_{109}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(2)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{109}^{(3)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{109}^{(4)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{109}^{(5)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{109}^{(6)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{109}^{(7)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{109}^{(8)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{109}^{(9)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{109}^{(10)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(12)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(13)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(14)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(15)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(16)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(17)}$	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-A
$\chi_{109}^{(18)}$	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-/A
$\chi_{109}^{(19)}$	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A
$\chi_{109}^{(20)}$	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A
$\chi_{109}^{(21)}$	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-A
$\chi_{109}^{(22)}$	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-/A
$\chi_{109}^{(23)}$	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A
$\chi_{109}^{(24)}$	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A
$\chi_{109}^{(25)}$	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-A
$\chi_{109}^{(26)}$	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-/A
$\chi_{109}^{(27)}$	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A
$\chi_{109}^{(28)}$	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A
$\chi_{109}^{(29)}$	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-A
$\chi_{109}^{(30)}$	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-/A

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$\chi_{109}^{(31)}$	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	A
$\chi_{109}^{(32)}$	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	/A
$\chi_{109}^{(33)}$	/A	1	1	A	/A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-A
$\chi_{109}^{(34)}$	A	1	1	/A	A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-/A
$\chi_{109}^{(35)}$	/A	1	1	A	/A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A
$\chi_{109}^{(36)}$	A	1	1	/A	A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A
$\chi_{109}^{(37)}$	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-A
$\chi_{109}^{(38)}$	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-/A
$\chi_{109}^{(39)}$	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A
$\chi_{109}^{(40)}$	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A
$\chi_{109}^{(41)}$	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-A
$\chi_{109}^{(42)}$	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-/A
$\chi_{109}^{(43)}$	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A
$\chi_{109}^{(44)}$	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A
$\chi_{109}^{(45)}$	/A	1	1	A	/A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-A
$\chi_{109}^{(46)}$	A	1	1	/A	A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-/A
$\chi_{109}^{(47)}$	/A	1	1	A	/A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A
$\chi_{109}^{(48)}$	A	1	1	/A	A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A
$\chi_{109}^{(49)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	1
$\chi_{109}^{(50)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-1
$\chi_{109}^{(51)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-1
$\chi_{109}^{(52)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	1
$\chi_{109}^{(53)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1
$\chi_{109}^{(54)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	1
$\chi_{109}^{(55)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	1
$\chi_{109}^{(56)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1
$\chi_{109}^{(57)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	A
$\chi_{109}^{(58)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	/A
$\chi_{109}^{(59)}$	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	-A
$\chi_{109}^{(60)}$	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-/A
$\chi_{109}^{(61)}$	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	-A
$\chi_{109}^{(62)}$	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-/A
$\chi_{109}^{(63)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	A
$\chi_{109}^{(64)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	/A
$\chi_{109}^{(65)}$	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-A
$\chi_{109}^{(66)}$	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-/A
$\chi_{109}^{(67)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	A
$\chi_{109}^{(68)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	/A
$\chi_{109}^{(69)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B	A
$\chi_{109}^{(70)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B	/A
$\chi_{109}^{(71)}$	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-A
$\chi_{109}^{(72)}$	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-/A
$\chi_{109}^{(73)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-3	-3	-3	3	3	3	-1	-1	-1	1	1	1	.
$\chi_{109}^{(74)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-3	-3	-3	3	3	3	-1	-1	-1	1	1	1	.
$\chi_{109}^{(75)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.

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$\chi_{109}^{(76)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.
$\chi_{109}^{(77)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.
$\chi_{109}^{(78)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1	.
$\chi_{109}^{(79)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-3	-3	-3	3	3	3	-1	-1	-1	1	1	1	.
$\chi_{109}^{(80)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-3	-3	-3	3	3	3	-1	-1	-1	1	1	1	.
$\chi_{109}^{(81)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.
$\chi_{109}^{(82)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.
$\chi_{109}^{(83)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1	.
$\chi_{109}^{(84)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1	.
$\chi_{109}^{(85)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1	.
$\chi_{109}^{(86)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1	.
$\chi_{109}^{(87)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.
$\chi_{109}^{(88)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	.
$\chi_{109}^{(89)}$	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A	-3	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A	.
$\chi_{109}^{(90)}$	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A	-3	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A	.
$\chi_{109}^{(91)}$	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	-3	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A	.
$\chi_{109}^{(92)}$	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	-3	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A	.
$\chi_{109}^{(93)}$	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.
$\chi_{109}^{(94)}$	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.
$\chi_{109}^{(95)}$	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.
$\chi_{109}^{(96)}$	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.
$\chi_{109}^{(97)}$	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.
$\chi_{109}^{(98)}$	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.
$\chi_{109}^{(99)}$	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A	.
$\chi_{109}^{(100)}$	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A	.
$\chi_{109}^{(101)}$	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A	-3	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A	.
$\chi_{109}^{(102)}$	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A	-3	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A	.
$\chi_{109}^{(103)}$	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	-3	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A	.
$\chi_{109}^{(104)}$	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	-3	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A	.
$\chi_{109}^{(105)}$	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.
$\chi_{109}^{(106)}$	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.
$\chi_{109}^{(107)}$	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.
$\chi_{109}^{(108)}$	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.
$\chi_{109}^{(109)}$	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	.
$\chi_{109}^{(110)}$	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	.
$\chi_{109}^{(111)}$	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	.
$\chi_{109}^{(112)}$	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	.
$\chi_{109}^{(113)}$	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	.
$\chi_{109}^{(114)}$	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	.
$\chi_{109}^{(115)}$	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A	.
$\chi_{109}^{(116)}$	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A	.
$\chi_{109}^{(117)}$	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.
$\chi_{109}^{(118)}$	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.
$\chi_{109}^{(119)}$	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.
$\chi_{109}^{(120)}$	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.

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$\chi_{109}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(2)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{109}^{(3)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{109}^{(4)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{109}^{(5)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{109}^{(6)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{109}^{(7)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{109}^{(8)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{109}^{(9)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{109}^{(10)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(11)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(12)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(13)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(14)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(15)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(16)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(17)}$	-/A	-1	1	A	/A	/A	1	A	-A	-/A	-1	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{109}^{(18)}$	-A	-1	1	/A	A	A	1	/A	-/A	-A	-1	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{109}^{(19)}$	/A	1	-1	-A	-/A	-/A	-1	-A	A	/A	1	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{109}^{(20)}$	A	1	-1	-/A	-A	-A	-1	-/A	/A	A	1	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{109}^{(21)}$	-/A	-1	1	A	/A	/A	1	A	-A	-/A	-1	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{109}^{(22)}$	-A	-1	1	/A	A	A	1	/A	-/A	-A	-1	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{109}^{(23)}$	/A	1	-1	-A	-/A	-/A	-1	-A	A	/A	1	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{109}^{(24)}$	A	1	-1	-/A	-A	-A	-1	-/A	/A	A	1	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{109}^{(25)}$	-/A	-1	1	A	/A	-/A	-1	-A	A	/A	1	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{109}^{(26)}$	-A	-1	1	/A	A	-A	-1	-/A	/A	A	1	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{109}^{(27)}$	/A	1	-1	-A	-/A	/A	1	A	-A	-/A	-1	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{109}^{(28)}$	A	1	-1	-/A	-A	A	1	/A	-/A	-A	-1	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{109}^{(29)}$	-/A	-1	1	A	/A	-/A	-1	-A	A	/A	1	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{109}^{(30)}$	-A	-1	1	/A	A	-A	-1	-/A	/A	A	1	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A
$\chi_{109}^{(31)}$	/A	1	-1	-A	-/A	/A	1	A	-A	-/A	-1	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{109}^{(32)}$	A	1	-1	-/A	-A	A	1	/A	-/A	-A	-1	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{109}^{(33)}$	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{109}^{(34)}$	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{109}^{(35)}$	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{109}^{(36)}$	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{109}^{(37)}$	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{109}^{(38)}$	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{109}^{(39)}$	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{109}^{(40)}$	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{109}^{(41)}$	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{109}^{(42)}$	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{109}^{(43)}$	/A	1	1	A	/A	/A	1	A	A	/A	1	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{109}^{(44)}$	A	1	1	/A	A	A	1	/A	/A	A	1	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{109}^{(45)}$	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A

	80																						
	90																						
$\chi_{109}^{(46)}$	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{109}^{(47)}$	/A	1	1	A	/A	/A	1	A	A	/A	1	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{109}^{(48)}$	A	1	1	/A	A	A	1	/A	/A	A	1	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{109}^{(49)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2
$\chi_{109}^{(50)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{109}^{(51)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2
$\chi_{109}^{(52)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{109}^{(53)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	2	2	2	2	2	2	2	2	2	2	2
$\chi_{109}^{(54)}$	1	1	1	1	1	1	1	1	1	1	1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{109}^{(55)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	2	2	2	2	2	2	2	2	2	2	2	2
$\chi_{109}^{(56)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{109}^{(57)}$	/A	1	-1	-A	-/A	-/A	-1	-A	A	/A	1	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B
$\chi_{109}^{(58)}$	A	1	-1	-/A	-A	-A	-1	-/A	/A	A	1	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B
$\chi_{109}^{(59)}$	-/A	-1	1	A	/A	/A	1	A	-A	-/A	-1	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B
$\chi_{109}^{(60)}$	-A	-1	1	/A	A	A	1	/A	-/A	-A	-1	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B
$\chi_{109}^{(61)}$	-/A	-1	1	A	/A	-/A	-1	-A	A	/A	1	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B
$\chi_{109}^{(62)}$	-A	-1	1	/A	A	-A	-1	-/A	/A	A	1	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B
$\chi_{109}^{(63)}$	/A	1	-1	-A	-/A	/A	1	A	-A	-/A	-1	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B
$\chi_{109}^{(64)}$	A	1	-1	-/A	-A	A	1	/A	-/A	-A	-1	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B
$\chi_{109}^{(65)}$	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	2	B	/B	/B	2	B	2	B	/B	/B	2	B
$\chi_{109}^{(66)}$	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	2	/B	B	B	2	/B	2	/B	B	B	2	/B
$\chi_{109}^{(67)}$	/A	1	1	A	/A	/A	1	A	A	/A	1	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B
$\chi_{109}^{(68)}$	A	1	1	/A	A	A	1	/A	/A	A	1	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B
$\chi_{109}^{(69)}$	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	2	B	/B	/B	2	B	2	B	/B	/B	2	B
$\chi_{109}^{(70)}$	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	2	/B	B	B	2	/B	2	/B	B	B	2	/B
$\chi_{109}^{(71)}$	-/A	-1	-1	-A	-/A	/A	1	A	A	/A	1	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	-/B	-2	-B
$\chi_{109}^{(72)}$	-A	-1	-1	-/A	-A	A	1	/A	/A	A	1	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	-B	-2	-/B
$\chi_{109}^{(73)}$	.	.	.	.	.	.	.	.	.	.	.	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1
$\chi_{109}^{(74)}$	.	.	.	.	.	.	.	.	.	.	.	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1
$\chi_{109}^{(75)}$	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	3	3	3	-1	-1	-1	1	1	1
$\chi_{109}^{(76)}$	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	3	3	3	-1	-1	-1	1	1	1
$\chi_{109}^{(77)}$	.	.	.	.	.	.	.	.	.	.	.	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1
$\chi_{109}^{(78)}$	.	.	.	.	.	.	.	.	.	.	.	3	3	3	-3	-3	-3	1	1	1	-1	-1	-1
$\chi_{109}^{(79)}$	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	3	3	3	-1	-1	-1	1	1	1
$\chi_{109}^{(80)}$	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	3	3	3	-1	-1	-1	1	1	1
$\chi_{109}^{(81)}$	.	.	.	.	.	.	.	.	.	.	.	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1
$\chi_{109}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1
$\chi_{109}^{(85)}$	.	.	.	.	.	.	.	.	.	.	.	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(86)}$	.	.	.	.	.	.	.	.	.	.	.	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(87)}$	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1
$\chi_{109}^{(88)}$	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1
$\chi_{109}^{(89)}$	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A
$\chi_{109}^{(90)}$	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A

	80												90											
$\chi_{109}^{(91)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A
$\chi_{109}^{(92)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A
$\chi_{109}^{(93)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A
$\chi_{109}^{(94)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A
$\chi_{109}^{(95)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A
$\chi_{109}^{(96)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A
$\chi_{109}^{(97)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A
$\chi_{109}^{(98)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A
$\chi_{109}^{(99)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	-/C	-3	-C	1	A	/A	-/A	-1	-A
$\chi_{109}^{(100)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	-C	-3	-/C	1	/A	A	-A	-1	-/A
$\chi_{109}^{(101)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A
$\chi_{109}^{(102)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A
$\chi_{109}^{(103)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-C	-/C	/C	3	C	-1	-A	-/A	/A	1	A
$\chi_{109}^{(104)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-/C	-C	C	3	/C	-1	-/A	-A	A	1	/A
$\chi_{109}^{(105)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A
$\chi_{109}^{(106)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A
$\chi_{109}^{(107)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A
$\chi_{109}^{(108)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A
$\chi_{109}^{(109)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A
$\chi_{109}^{(110)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A
$\chi_{109}^{(111)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A
$\chi_{109}^{(112)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A
$\chi_{109}^{(113)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A
$\chi_{109}^{(114)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A
$\chi_{109}^{(115)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A
$\chi_{109}^{(116)}$	.	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A
$\chi_{109}^{(117)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A
$\chi_{109}^{(118)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A
$\chi_{109}^{(119)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A
$\chi_{109}^{(120)}$	.	.	.	.	.	.	.	.	.	.	.	.	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A

	100												110											120
$\chi_{109}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(2)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{109}^{(3)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{109}^{(4)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{109}^{(5)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{109}^{(6)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{109}^{(7)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{109}^{(8)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{109}^{(9)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{109}^{(10)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(11)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(12)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(13)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(14)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{109}^{(15)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

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$\chi_{109}^{(16)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(17)}$	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	-A	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A
$\chi_{109}^{(18)}$	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	-/A	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A
$\chi_{109}^{(19)}$	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	A	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A
$\chi_{109}^{(20)}$	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	/A	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A
$\chi_{109}^{(21)}$	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	A	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A
$\chi_{109}^{(22)}$	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	/A	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A
$\chi_{109}^{(23)}$	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	-A	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A
$\chi_{109}^{(24)}$	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	-/A	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A
$\chi_{109}^{(25)}$	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	A	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A
$\chi_{109}^{(26)}$	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	/A	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A
$\chi_{109}^{(27)}$	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	-A	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A
$\chi_{109}^{(28)}$	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	-/A	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A
$\chi_{109}^{(29)}$	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	-A	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A
$\chi_{109}^{(30)}$	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	-/A	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A
$\chi_{109}^{(31)}$	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	A	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A
$\chi_{109}^{(32)}$	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	/A	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A
$\chi_{109}^{(33)}$	/A	1	A	A	/A	1	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A
$\chi_{109}^{(34)}$	A	1	/A	/A	A	1	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A
$\chi_{109}^{(35)}$	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	-A	-/A	-1	A	/A	1	1	A	/A	A	/A	1	1	A	/A
$\chi_{109}^{(36)}$	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	-/A	-A	-1	/A	A	1	1	/A	A	/A	A	1	1	/A	A
$\chi_{109}^{(37)}$	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	-A	-/A	-1	A	/A	1	1	A	/A	A	/A	1	1	A	/A
$\chi_{109}^{(38)}$	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	-/A	-A	-1	/A	A	1	1	/A	A	/A	A	1	1	/A	A
$\chi_{109}^{(39)}$	/A	1	A	A	/A	1	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A
$\chi_{109}^{(40)}$	A	1	/A	/A	A	1	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A
$\chi_{109}^{(41)}$	/A	1	A	A	/A	1	/A	1	A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	1	A	/A
$\chi_{109}^{(42)}$	A	1	/A	/A	A	1	A	1	/A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	1	/A	A
$\chi_{109}^{(43)}$	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A
$\chi_{109}^{(44)}$	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A
$\chi_{109}^{(45)}$	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	-A	-/A	-1	-1	-A	-/A
$\chi_{109}^{(46)}$	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A
$\chi_{109}^{(47)}$	/A	1	A	A	/A	1	/A	1	A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	1	A	/A
$\chi_{109}^{(48)}$	A	1	/A	/A	A	1	A	1	/A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	1	/A	A
$\chi_{109}^{(49)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(50)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(51)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(52)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(53)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(54)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(55)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(56)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(57)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(58)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(59)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(60)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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$\chi_{109}^{(61)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(62)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(63)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(64)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(65)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(66)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(67)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(68)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(69)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(70)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(71)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(72)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{109}^{(73)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{109}^{(74)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{109}^{(75)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{109}^{(76)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{109}^{(77)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{109}^{(78)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{109}^{(79)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{109}^{(80)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{109}^{(81)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(82)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{109}^{(83)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{109}^{(84)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(85)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{109}^{(86)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(87)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{109}^{(88)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{109}^{(89)}$	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A
$\chi_{109}^{(90)}$	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A
$\chi_{109}^{(91)}$	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	A	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A
$\chi_{109}^{(92)}$	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	/A	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A
$\chi_{109}^{(93)}$	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	A	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A
$\chi_{109}^{(94)}$	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	/A	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A
$\chi_{109}^{(95)}$	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A
$\chi_{109}^{(96)}$	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A
$\chi_{109}^{(97)}$	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	A	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A
$\chi_{109}^{(98)}$	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	/A	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A
$\chi_{109}^{(99)}$	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A
$\chi_{109}^{(100)}$	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A
$\chi_{109}^{(101)}$	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A
$\chi_{109}^{(102)}$	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A
$\chi_{109}^{(103)}$	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	A	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A
$\chi_{109}^{(104)}$	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	/A	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A
$\chi_{109}^{(105)}$	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	A	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A

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$\chi_{109}^{(106)}$	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	/A	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A
$\chi_{109}^{(107)}$	/A	1	A	A	/A	1	-/A	-1	-A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A
$\chi_{109}^{(108)}$	A	1	/A	/A	A	1	-A	-1	-/A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A
$\chi_{109}^{(109)}$	/A	1	A	A	/A	1	-/A	-1	-A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A
$\chi_{109}^{(110)}$	A	1	/A	/A	A	1	-A	-1	-/A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A
$\chi_{109}^{(111)}$	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	A	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A
$\chi_{109}^{(112)}$	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	/A	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A
$\chi_{109}^{(113)}$	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A
$\chi_{109}^{(114)}$	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A
$\chi_{109}^{(115)}$	/A	1	A	A	/A	1	-/A	-1	-A	-A	-/A	-1	A	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A
$\chi_{109}^{(116)}$	A	1	/A	/A	A	1	-A	-1	-/A	-/A	-A	-1	/A	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A
$\chi_{109}^{(117)}$	/A	1	A	A	/A	1	-/A	-1	-A	-A	-/A	-1	A	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A
$\chi_{109}^{(118)}$	A	1	/A	/A	A	1	-A	-1	-/A	-/A	-A	-1	/A	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A
$\chi_{109}^{(119)}$	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A
$\chi_{109}^{(120)}$	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A

where A = E(3)^2 = (-1-ER(-3))/2 = -1-b3, B = 2*E(3)^2 = -1-ER(-3) = -1-i3, C = 3*E(3)^2 = (-3-3*ER(-3))/2 = -3-3b3.

The generators of G^{s110} are:

$$\begin{pmatrix} -2 & 0 & 1 & 0 & 1 & -1 & 0 & -1 \\ -3 & 1 & 1 & -1 & 2 & -1 & 0 & -1 \\ -4 & 1 & 2 & -1 & 2 & -1 & -1 & -1 \\ -6 & 1 & 2 & -1 & 3 & -1 & -1 & -2 \\ -5 & 1 & 2 & -1 & 2 & -1 & 0 & -2 \\ -4 & 0 & 2 & -1 & 2 & -1 & 0 & -1 \\ -2 & 0 & 1 & -1 & 2 & -1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & -1 & 1 & -1 & 3 \\ 0 & -2 & 2 & 0 & -1 & 1 & -1 & 3 \\ 0 & -2 & 3 & -1 & -1 & 1 & -1 & 5 \\ 0 & -2 & 2 & 0 & -1 & 0 & 0 & 4 \\ 1 & -1 & 1 & 0 & -1 & 0 & 0 & 3 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s110} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 1 & -1 & 0 & -1 \\ -3 & 1 & 1 & -1 & 2 & -1 & 0 & -1 \\ -4 & 1 & 2 & -1 & 2 & -1 & -1 & -1 \\ -6 & 1 & 2 & -1 & 3 & -1 & -1 & -2 \\ -5 & 1 & 2 & -1 & 2 & -1 & 0 & -2 \\ -4 & 0 & 2 & -1 & 2 & -1 & 0 & -1 \\ -2 & 0 & 1 & -1 & 2 & -1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 2 & -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 2 & -2 & 2 & -2 & 0 & 1 \\ -3 & 1 & 3 & -2 & 2 & -2 & -1 & 1 \\ -4 & 1 & 4 & -3 & 3 & -3 & -1 & 2 \\ -3 & 1 & 3 & -2 & 2 & -3 & 0 & 1 \\ -2 & 0 & 2 & -1 & 2 & -3 & 0 & 1 \\ -1 & 0 & 1 & -1 & 2 & -2 & 0 & 0 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -2 & 0 & 1 & 1 & -1 & 1 & -1 \\ -2 & -3 & 1 & 1 & 1 & 0 & 0 & -1 \\ -2 & -4 & 1 & 1 & 2 & -1 & 1 & -2 \\ -4 & -5 & 2 & 1 & 3 & -1 & 1 & -3 \\ -4 & -4 & 2 & 1 & 2 & -1 & 1 & -2 \\ -3 & -3 & 2 & 0 & 2 & -1 & 1 & -1 \\ -2 & -2 & 1 & 0 & 2 & -1 & 0 & 0 \\ -1 & -1 & 1 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -2 & 1 & 0 & 1 & -1 & 1 & 0 \\ -1 & -3 & 2 & 0 & 1 & -1 & 0 & 1 \\ -1 & -4 & 2 & 0 & 2 & -2 & 1 & 0 \\ -2 & -5 & 4 & -1 & 3 & -3 & 1 & 1 \\ -2 & -4 & 3 & 0 & 2 & -3 & 1 & 1 \\ -1 & -3 & 2 & 0 & 2 & -3 & 1 & 1 \\ -1 & -2 & 1 & 0 & 2 & -2 & 0 & 1 \\ -1 & -1 & 1 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 0 & 1 & 0 & 0 & 1 \\ -1 & -2 & 0 & 0 & 1 & 0 & 1 & 1 \\ -2 & -2 & 0 & 0 & 2 & -1 & 1 & 2 \\ -3 & -3 & 1 & -1 & 3 & -1 & 2 & 2 \\ -2 & -3 & 1 & -1 & 3 & -1 & 1 & 2 \\ -1 & -2 & 1 & -1 & 2 & -1 & 1 & 2 \\ -1 & -2 & 1 & 0 & 1 & -1 & 1 & 1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 1 & 1 & -1 & -1 & 0 \\ -2 & -1 & -1 & 2 & 1 & -1 & -1 & 0 \\ -3 & -1 & 0 & 2 & 1 & -1 & -2 & 0 \\ -4 & -1 & -1 & 3 & 2 & -2 & -2 & -1 \\ -3 & -1 & -1 & 2 & 2 & -1 & -2 & -1 \\ -3 & -1 & 0 & 1 & 2 & -1 & -1 & -1 \\ -2 & -1 & 0 & 1 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & -1 & 2 & -1 & 1 & -1 \\ -2 & -1 & 3 & -2 & 2 & -1 & 1 & -1 \\ -2 & -2 & 3 & -2 & 3 & -2 & 2 & -2 \\ -4 & -3 & 5 & -3 & 4 & -2 & 2 & -2 \\ -3 & -2 & 4 & -3 & 4 & -2 & 1 & -1 \\ -2 & -2 & 3 & -2 & 3 & -2 & 1 & 0 \\ -2 & -1 & 2 & -1 & 2 & -2 & 1 & 0 \\ -1 & -1 & 1 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -1 & -1 & 1 \\ -1 & -1 & 0 & 1 & 1 & -2 & -1 & 2 \\ -2 & -1 & 1 & 1 & 1 & -2 & -2 & 2 \\ -2 & -1 & 1 & 1 & 2 & -4 & -2 & 3 \\ -1 & -1 & 0 & 1 & 2 & -3 & -2 & 2 \\ -1 & -1 & 0 & 1 & 2 & -3 & -1 & 1 \\ -1 & -1 & 0 & 1 & 1 & -2 & 0 & 0 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & -1 & 1 & 0 & 0 & 0 & -1 \\ -1 & -1 & -1 & 1 & 0 & 1 & 0 & -2 \\ -1 & 0 & -2 & 1 & 0 & 1 & 0 & -2 \\ -2 & 0 & -2 & 1 & 0 & 2 & 0 & -4 \\ -2 & 0 & -1 & 1 & -1 & 2 & 0 & -3 \\ -2 & 0 & 0 & 0 & 0 & 1 & 0 & -2 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 1 & -1 & 1 & 0 \\ -1 & 0 & 0 & -1 & 2 & -1 & 2 & -1 \\ -2 & 0 & 0 & -1 & 3 & -2 & 2 & 0 \\ -3 & -1 & 0 & -1 & 4 & -2 & 3 & -1 \\ -3 & -1 & 1 & -1 & 3 & -2 & 3 & -1 \\ -2 & -1 & 1 & -1 & 2 & -1 & 2 & 0 \\ -1 & -1 & 1 & -1 & 2 & -1 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 1 & -1 & 1 & -1 & 1 & 1 \\ 0 & 0 & 1 & -2 & 2 & -2 & 2 & 1 \\ -1 & 0 & 1 & -2 & 3 & -3 & 2 & 2 \\ -1 & -1 & 2 & -3 & 4 & -4 & 3 & 3 \\ -1 & -1 & 2 & -2 & 3 & -4 & 3 & 2 \\ 0 & -1 & 1 & -1 & 2 & -3 & 2 & 2 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & 1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 1 & -2 & 0 & 0 \\ -1 & 1 & 0 & 0 & 2 & -3 & 0 & 0 \\ -2 & 1 & 1 & 0 & 2 & -3 & -1 & 0 \\ -2 & 1 & 0 & 1 & 3 & -5 & -1 & 0 \\ -2 & 1 & 0 & 1 & 2 & -4 & 0 & -1 \\ -2 & 0 & 0 & 1 & 2 & -3 & 0 & -1 \\ -1 & 0 & 0 & 0 & 2 & -2 & 0 & -1 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 1 & -2 & 1 & 0 & 1 & -2 \\ -1 & 2 & 0 & -2 & 1 & 0 & 1 & -2 \\ -2 & 2 & 1 & -3 & 1 & 1 & 1 & -3 \\ -1 & 2 & 1 & -3 & 1 & 1 & 0 & -2 \\ -1 & 1 & 1 & -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -2 & 0 & 1 & 1 & -2 & 1 & 0 \\ 0 & -3 & 0 & 2 & 1 & -2 & 0 & 0 \\ 0 & -4 & 0 & 2 & 2 & -3 & 1 & -1 \\ 0 & -5 & 0 & 3 & 3 & -5 & 1 & -1 \\ -1 & -4 & 0 & 3 & 2 & -4 & 1 & -1 \\ -1 & -3 & 0 & 2 & 2 & -3 & 1 & -1 \\ -1 & -2 & 0 & 1 & 2 & -2 & 0 & 0 \\ -1 & -1 & 1 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 1 & 1 & -1 & 0 & 1 \\ 0 & -2 & -2 & 2 & 1 & -1 & 1 & 0 \\ -1 & -2 & -2 & 2 & 2 & -2 & 1 & 1 \\ -1 & -3 & -3 & 3 & 3 & -3 & 2 & 0 \\ -1 & -3 & -2 & 2 & 3 & -2 & 1 & 0 \\ -1 & -2 & -1 & 1 & 2 & -1 & 1 & 0 \\ -1 & -2 & 0 & 1 & 1 & -1 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 1 & -1 & 0 & 2 \\ 1 & -2 & -1 & 1 & 1 & -2 & 1 & 2 \\ 0 & -2 & -1 & 1 & 2 & -3 & 1 & 3 \\ 1 & -3 & -1 & 1 & 3 & -5 & 2 & 4 \\ 1 & -3 & -1 & 1 & 3 & -4 & 1 & 3 \\ 1 & -2 & -1 & 1 & 2 & -3 & 1 & 2 \\ 0 & -2 & 0 & 1 & 1 & -2 & 1 & 1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 0 & 2 & -2 & 1 & -1 \\ -1 & -1 & 1 & 0 & 2 & -2 & 1 & -2 \\ -1 & -2 & 1 & 0 & 3 & -3 & 2 & -3 \\ -2 & -3 & 1 & 1 & 4 & -4 & 2 & -4 \\ -2 & -2 & 1 & 0 & 4 & -3 & 1 & -3 \\ -2 & -2 & 1 & 0 & 3 & -2 & 1 & -2 \\ -2 & -1 & 1 & 0 & 2 & -2 & 1 & -1 \\ -1 & -1 & 1 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ -1 & -1 & 0 & 1 & -1 & 2 & -1 & 1 \\ -1 & -2 & 1 & 1 & -1 & 2 & -1 & 1 \\ -2 & -2 & 1 & 1 & -1 & 3 & -1 & 1 \\ -2 & -2 & 1 & 1 & -1 & 2 & 0 & 1 \\ -1 & -1 & 1 & 0 & -1 & 2 & 0 & 1 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 2 & -2 & 1 & 0 \\ 0 & -1 & 2 & -1 & 2 & -3 & 1 & 0 \\ 0 & -2 & 2 & -1 & 3 & -4 & 2 & -1 \\ 0 & -3 & 3 & -1 & 4 & -6 & 2 & 0 \\ 0 & -2 & 2 & -1 & 4 & -5 & 1 & 0 \\ 0 & -2 & 1 & 0 & 3 & -4 & 1 & 0 \\ -1 & -1 & 1 & 0 & 2 & -3 & 1 & 0 \\ -1 & -1 & 1 & 0 & 1 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & -1 & 1 & -1 & 3 \\ 0 & -2 & 2 & 0 & -1 & 1 & -1 & 3 \\ 0 & -2 & 3 & -1 & -1 & 1 & -1 & 5 \\ 0 & -2 & 2 & 0 & -1 & 0 & 0 & 4 \\ 1 & -1 & 1 & 0 & -1 & 0 & 0 & 3 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \\ 1 & -1 & -2 & 2 & 0 & -1 & 0 & -1 \\ 1 & 0 & -3 & 2 & 0 & -1 & 0 & -1 \\ 2 & 0 & -4 & 3 & 0 & -2 & 0 & -2 \\ 1 & 0 & -3 & 3 & -1 & -1 & 0 & -2 \\ 0 & 0 & -2 & 2 & 0 & -1 & 0 & -2 \\ 0 & 0 & -1 & 1 & 0 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 2 & -1 & -1 \\ -1 & 0 & 1 & 0 & -2 & 3 & -2 & 0 \\ 0 & 0 & 1 & 0 & -3 & 4 & -2 & -1 \\ -1 & 1 & 2 & -1 & -4 & 6 & -3 & -1 \\ 0 & 1 & 1 & -1 & -3 & 5 & -3 & 0 \\ 0 & 1 & 1 & -1 & -2 & 3 & -2 & 0 \\ 0 & 1 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & 0 & 1 & -2 & 1 & 1 \\ 1 & 0 & -1 & 0 & 2 & -3 & 2 & 0 \\ 0 & 0 & -1 & 0 & 3 & -4 & 2 & 1 \\ 1 & -1 & -2 & 1 & 4 & -6 & 3 & 1 \\ 0 & -1 & -1 & 1 & 3 & -5 & 3 & 0 \\ 0 & -1 & -1 & 1 & 2 & -3 & 2 & 0 \\ 0 & -1 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \\ -1 & 1 & 2 & -2 & 0 & 1 & 0 & 1 \\ -1 & 0 & 3 & -2 & 0 & 1 & 0 & 1 \\ -2 & 0 & 4 & -3 & 0 & 2 & 0 & 2 \\ -1 & 0 & 3 & -3 & 1 & 1 & 0 & 2 \\ 0 & 0 & 2 & -2 & 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & 1 & -1 & 1 & -3 \\ 0 & 2 & -2 & 0 & 1 & -1 & 1 & -3 \\ 0 & 2 & -3 & 1 & 1 & -1 & 1 & -5 \\ 0 & 2 & -2 & 0 & 1 & 0 & 0 & -4 \\ -1 & 1 & -1 & 0 & 1 & 0 & 0 & -3 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & -2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & -1 & 1 & -2 & 2 & -1 & 0 \\ 0 & 1 & -2 & 1 & -2 & 3 & -1 & 0 \\ 0 & 2 & -2 & 1 & -3 & 4 & -2 & 1 \\ 0 & 3 & -3 & 1 & -4 & 6 & -2 & 0 \\ 0 & 2 & -2 & 1 & -4 & 5 & -1 & 0 \\ 0 & 2 & -1 & 0 & -3 & 4 & -1 & 0 \\ 1 & 1 & -1 & 0 & -2 & 3 & -1 & 0 \\ 1 & 1 & -1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 1 & -1 & 0 & 0 \\ 1 & 1 & 0 & -1 & 1 & -2 & 1 & -1 \\ 1 & 2 & -1 & -1 & 1 & -2 & 1 & -1 \\ 2 & 2 & -1 & -1 & 1 & -3 & 1 & -1 \\ 2 & 2 & -1 & -1 & 1 & -2 & 0 & -1 \\ 1 & 1 & -1 & 0 & 1 & -2 & 0 & -1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & -2 & 2 & -1 & 1 \\ 1 & 1 & -1 & 0 & -2 & 2 & -1 & 2 \\ 1 & 2 & -1 & 0 & -3 & 3 & -2 & 3 \\ 2 & 3 & -1 & -1 & -4 & 4 & -2 & 4 \\ 2 & 2 & -1 & 0 & -4 & 3 & -1 & 3 \\ 2 & 2 & -1 & 0 & -3 & 2 & -1 & 2 \\ 2 & 1 & -1 & 0 & -2 & 2 & -1 & 1 \\ 1 & 1 & -1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & -1 & 1 & 0 & -2 \\ -1 & 2 & 1 & -1 & -1 & 2 & -1 & -2 \\ 0 & 2 & 1 & -1 & -2 & 3 & -1 & -3 \\ -1 & 3 & 1 & -1 & -3 & 5 & -2 & -4 \\ -1 & 3 & 1 & -1 & -3 & 4 & -1 & -3 \\ -1 & 2 & 1 & -1 & -2 & 3 & -1 & -2 \\ 0 & 2 & 0 & -1 & -1 & 2 & -1 & -1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 1 & -1 & -1 & 1 & 0 & -1 \\ 0 & 2 & 2 & -2 & -1 & 1 & -1 & 0 \\ 1 & 2 & 2 & -2 & -2 & 2 & -1 & -1 \\ 1 & 3 & 3 & -3 & -3 & 3 & -2 & 0 \\ 1 & 3 & 2 & -2 & -3 & 2 & -1 & 0 \\ 1 & 2 & 1 & -1 & -2 & 1 & -1 & 0 \\ 1 & 2 & 0 & -1 & -1 & 1 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & -1 & 2 & -1 & 0 \\ 0 & 3 & 0 & -2 & -1 & 2 & 0 & 0 \\ 0 & 4 & 0 & -2 & -2 & 3 & -1 & 1 \\ 0 & 5 & 0 & -3 & -3 & 5 & -1 & 1 \\ 1 & 4 & 0 & -3 & -2 & 4 & -1 & 1 \\ 1 & 3 & 0 & -2 & -2 & 3 & -1 & 1 \\ 1 & 2 & 0 & -1 & -2 & 2 & 0 & 0 \\ 1 & 1 & -1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & 0 & 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & -1 & 2 & -1 & 0 & -1 & 2 \\ 1 & -2 & 0 & 2 & -1 & 0 & -1 & 2 \\ 2 & -2 & -1 & 3 & -1 & -1 & -1 & 3 \\ 1 & -2 & -1 & 3 & -1 & -1 & 0 & 2 \\ 1 & -1 & -1 & 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & -1 & 2 & 0 & 0 \\ 1 & -1 & 0 & 0 & -2 & 3 & 0 & 0 \\ 2 & -1 & -1 & 0 & -2 & 3 & 1 & 0 \\ 2 & -1 & 0 & -1 & -3 & 5 & 1 & 0 \\ 2 & -1 & 0 & -1 & -2 & 4 & 0 & 1 \\ 2 & 0 & 0 & -1 & -2 & 3 & 0 & 1 \\ 1 & 0 & 0 & 0 & -2 & 2 & 0 & 1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & -1 & -1 \\ 0 & 0 & -1 & 2 & -2 & 2 & -2 & -1 \\ 1 & 0 & -1 & 2 & -3 & 3 & -2 & -2 \\ 1 & 1 & -2 & 3 & -4 & 4 & -3 & -3 \\ 1 & 1 & -2 & 2 & -3 & 4 & -3 & -2 \\ 0 & 1 & -1 & 1 & -2 & 3 & -2 & -2 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & -1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & -1 & 1 & -1 & 0 \\ 1 & 0 & 0 & 1 & -2 & 1 & -2 & 1 \\ 2 & 0 & 0 & 1 & -3 & 2 & -2 & 0 \\ 3 & 1 & 0 & 1 & -4 & 2 & -3 & 1 \\ 3 & 1 & -1 & 1 & -3 & 2 & -3 & 1 \\ 2 & 1 & -1 & 1 & -2 & 1 & -2 & 0 \\ 1 & 1 & -1 & 1 & -2 & 1 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 1 & 0 & 1 & 0 & -1 & 0 \\ -3 & -1 & 1 & 0 & 1 & 0 & -1 & 1 \\ -4 & -1 & 2 & 0 & 1 & 0 & -2 & 1 \\ -6 & -1 & 3 & -1 & 2 & 0 & -2 & 1 \\ -4 & -1 & 2 & -1 & 2 & 0 & -2 & 1 \\ -3 & -1 & 2 & -1 & 2 & -1 & -1 & 1 \\ -2 & -1 & 1 & 0 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 1 & -1 & 0 & 0 & 0 & 1 \\ 1 & 1 & 1 & -1 & 0 & -1 & 0 & 2 \\ 1 & 0 & 2 & -1 & 0 & -1 & 0 & 2 \\ 2 & 0 & 2 & -1 & 0 & -2 & 0 & 4 \\ 2 & 0 & 1 & -1 & 1 & -2 & 0 & 3 \\ 2 & 0 & 0 & 0 & 0 & -1 & 0 & 2 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & 0 & -1 & 1 & 1 & -1 \\ 1 & 1 & 0 & -1 & -1 & 2 & 1 & -2 \\ 2 & 1 & -1 & -1 & -1 & 2 & 2 & -2 \\ 2 & 1 & -1 & -1 & -2 & 4 & 2 & -3 \\ 1 & 1 & 0 & -1 & -2 & 3 & 2 & -2 \\ 1 & 1 & 0 & -1 & -2 & 3 & 1 & -1 \\ 1 & 1 & 0 & -1 & -1 & 2 & 0 & 0 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 1 & -2 & 1 & -1 & 1 \\ 2 & 1 & -3 & 2 & -2 & 1 & -1 & 1 \\ 2 & 2 & -3 & 2 & -3 & 2 & -2 & 2 \\ 4 & 3 & -5 & 3 & -4 & 2 & -2 & 2 \\ 3 & 2 & -4 & 3 & -4 & 2 & -1 & 1 \\ 2 & 2 & -3 & 2 & -3 & 2 & -1 & 0 \\ 2 & 1 & -2 & 1 & -2 & 2 & -1 & 0 \\ 1 & 1 & -1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & -1 & 1 & 1 & 0 \\ 2 & 1 & 1 & -2 & -1 & 1 & 1 & 0 \\ 3 & 1 & 0 & -2 & -1 & 1 & 2 & 0 \\ 4 & 1 & 1 & -3 & -2 & 2 & 2 & 1 \\ 3 & 1 & 1 & -2 & -2 & 1 & 2 & 1 \\ 3 & 1 & 0 & -1 & -2 & 1 & 1 & 1 \\ 2 & 1 & 0 & -1 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 1 & 2 & 0 & 0 & -1 & 0 & -1 & -1 \\ 2 & 2 & 0 & 0 & -2 & 1 & -1 & -2 \\ 3 & 3 & -1 & 1 & -3 & 1 & -2 & -2 \\ 2 & 3 & -1 & 1 & -3 & 1 & -1 & -2 \\ 1 & 2 & -1 & 1 & -2 & 1 & -1 & -2 \\ 1 & 2 & -1 & 0 & -1 & 1 & -1 & -1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 2 & -1 & 0 & -1 & 1 & -1 & 0 \\ 1 & 3 & -2 & 0 & -1 & 1 & 0 & -1 \\ 1 & 4 & -2 & 0 & -2 & 2 & -1 & 0 \\ 2 & 5 & -4 & 1 & -3 & 3 & -1 & -1 \\ 2 & 4 & -3 & 0 & -2 & 3 & -1 & -1 \\ 1 & 3 & -2 & 0 & -2 & 3 & -1 & -1 \\ 1 & 2 & -1 & 0 & -2 & 2 & 0 & -1 \\ 1 & 1 & -1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 2 & 0 & -1 & -1 & 1 & -1 & 1 \\ 2 & 3 & -1 & -1 & -1 & 0 & 0 & 1 \\ 2 & 4 & -1 & -1 & -2 & 1 & -1 & 2 \\ 4 & 5 & -2 & -1 & -3 & 1 & -1 & 3 \\ 4 & 4 & -2 & -1 & -2 & 1 & -1 & 2 \\ 3 & 3 & -2 & 0 & -2 & 1 & -1 & 1 \\ 2 & 2 & -1 & 0 & -2 & 1 & 0 & 0 \\ 1 & 1 & -1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 2 & 0 & -2 & 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & -2 & 2 & -2 & 2 & 0 & -1 \\ 3 & -1 & -3 & 2 & -2 & 2 & 1 & -1 \\ 4 & -1 & -4 & 3 & -3 & 3 & 1 & -2 \\ 3 & -1 & -3 & 2 & -2 & 3 & 0 & -1 \\ 2 & 0 & -2 & 1 & -2 & 3 & 0 & -1 \\ 1 & 0 & -1 & 1 & -2 & 2 & 0 & 0 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 0 & -1 & 1 & 0 & 1 \\ 3 & -1 & -1 & 1 & -2 & 1 & 0 & 1 \\ 4 & -1 & -2 & 1 & -2 & 1 & 1 & 1 \\ 6 & -1 & -2 & 1 & -3 & 1 & 1 & 2 \\ 5 & -1 & -2 & 1 & -2 & 1 & 0 & 2 \\ 4 & 0 & -2 & 1 & -2 & 1 & 0 & 1 \\ 2 & 0 & -1 & 1 & -2 & 1 & 0 & 1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 1 & -1 & 0 & -1 & 0 & 1 & 0 \\ 3 & 1 & -1 & 0 & -1 & 0 & 1 & -1 \\ 4 & 1 & -2 & 0 & -1 & 0 & 2 & -1 \\ 6 & 1 & -3 & 1 & -2 & 0 & 2 & -1 \\ 4 & 1 & -2 & 1 & -2 & 0 & 2 & -1 \\ 3 & 1 & -2 & 1 & -2 & 1 & 1 & -1 \\ 2 & 1 & -1 & 0 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}.$$

The character table of $G^{s_{110}}$:

										10										20				
$\chi_{110}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{110}^{(2)}$	1	1	1	-1	-1	-1	-1	1	-1	-1	-1	1	1	1	1	-1	-1	-1	1	-1	1	-1	-1	-1
$\chi_{110}^{(3)}$	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	1	-1	1	1	1	-1	1	-1	-1	1
$\chi_{110}^{(4)}$	1	-1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	-1	1	1	-1	-1	1	1	1	1	1	-1
$\chi_{110}^{(5)}$	1	A	A	1	1	A	-A	-1	-A	-1	-1	-A	-A	A	1	1	A	A	-1	-1	-1	-1	-1	A
$\chi_{110}^{(6)}$	1	-A	-A	1	1	-A	A	-1	A	-1	-1	A	A	-A	1	1	-A	-A	-1	-1	-1	-1	-1	-A
$\chi_{110}^{(7)}$	1	B	A	/C	1	-/B	-A	-C	-B	-/C	-1	-B	-A	-/B	C	C	A	B	-1	-/C	-/C	-1	-C	-/B
$\chi_{110}^{(8)}$	1	-B	-A	/C	1	/B	A	-C	B	-/C	-1	B	A	/B	C	C	-A	-B	-1	-/C	-/C	-1	-C	/B
$\chi_{110}^{(9)}$	1	-/B	A	C	1	B	-A	-/C	/B	-C	-1	/B	-A	B	/C	/C	A	-/B	-1	-C	-C	-1	-/C	B
$\chi_{110}^{(10)}$	1	/B	-A	C	1	-B	A	-/C	-/B	-C	-1	-/B	A	-B	/C	/C	-A	/B	-1	-C	-C	-1	-/C	-B
$\chi_{110}^{(11)}$	1	C	1	-C	-1	-/C	-1	/C	-C	-C	-1	C	1	/C	/C	-/C	-1	-C	1	-C	C	-1	-/C	-/C
$\chi_{110}^{(12)}$	1	/C	1	-/C	-1	-C	-1	C	-/C	-/C	-1	/C	1	C	C	-C	-1	-/C	1	-/C	/C	-1	-C	-C
$\chi_{110}^{(13)}$	1	-C	-1	-C	-1	/C	1	/C	C	-C	-1	-C	-1	-/C	/C	-/C	1	C	1	-C	C	-1	-/C	/C
$\chi_{110}^{(14)}$	1	-/C	-1	-/C	-1	C	1	C	/C	-/C	-1	-/C	-1	-C	C	-C	1	/C	1	-/C	/C	-1	-C	C
$\chi_{110}^{(15)}$	1	D	D	-A	-A	/D	-D	A	-D	1	1	-/D	-/D	D	-1	-A	/D	/D	A	-1	A	-1	1	-/D
$\chi_{110}^{(16)}$	1	-D	-D	-A	-A	-/D	D	A	D	1	1	/D	/D	-D	-1	-A	-/D	-/D	A	-1	A	-1	1	/D
$\chi_{110}^{(17)}$	1	-/D	-/D	A	A	-D	/D	-A	/D	1	1	D	D	-/D	-1	A	-D	-D	-A	-1	-A	-1	1	D
$\chi_{110}^{(18)}$	1	/D	/D	A	A	D	-/D	-A	-/D	1	1	-D	-D	/D	-1	A	D	D	-A	-1	-A	-1	1	-D
$\chi_{110}^{(19)}$	1	E	D	-B	-A	/E	-D	-/B	-E	/C	1	-/F	-/D	F	-C	/B	/D	/F	A	-/C	B	-1	C	-/E
$\chi_{110}^{(20)}$	1	-E	-D	-B	-A	-/E	D	-/B	E	/C	1	/F	/D	-F	-C	/B	-/D	-/F	A	-/C	B	-1	C	/E
$\chi_{110}^{(21)}$	1	F	D	/B	-A	/F	-D	B	-F	C	1	-/E	-/D	E	-/C	-B	/D	/E	A	-C	-/B	-1	/C	-/F
$\chi_{110}^{(22)}$	1	-F	-D	/B	-A	-/F	D	B	F	C	1	/E	/D	-E	-/C	-B	-/D	-/E	A	-C	-/B	-1	/C	/F
$\chi_{110}^{(23)}$	1	-/E	-/D	-/B	A	-E	/D	-B	/E	C	1	F	D	-/F	-/C	B	-D	-F	-A	-C	/B	-1	/C	E
$\chi_{110}^{(24)}$	1	/E	/D	-/B	A	E	-/D	-B	-/E	C	1	-F	-D	/F	-/C	B	D	F	-A	-C	/B	-1	/C	-E
$\chi_{110}^{(25)}$	1	-/F	-/D	B	A	-F	/D	/B	/F	/C	1	E	D	-/E	-C	-/B	-D	-E	-A	-/C	-B	-1	C	F
$\chi_{110}^{(26)}$	1	/F	/D	B	A	F	-/D	/B	-/F	/C	1	-E	-D	/E	-C	-/B	D	E	-A	-/C	-B	-1	C	-F
$\chi_{110}^{(27)}$	1	-A	-A	-1	-1	A	-A	-1	-A	1	1	A	A	-A	1	-1	A	A	-1	1	-1	1	1	A
$\chi_{110}^{(28)}$	1	A	A	-1	-1	-A	A	-1	A	1	1	-A	-A	A	1	-1	-A	-A	-1	1	-1	1	1	-A
$\chi_{110}^{(29)}$	1	-B	-A	-/C	-1	-/B	-A	-C	-B	/C	1	B	A	/B	C	-C	A	B	-1	/C	-/C	1	C	-/B
$\chi_{110}^{(30)}$	1	B	A	-/C	-1	/B	A	-C	B	/C	1	-B	-A	-/B	C	-C	-A	-B	-1	/C	-/C	1	C	/B
$\chi_{110}^{(31)}$	1	/B	-A	-C	-1	B	-A	-/C	/B	C	1	-/B	A	-B	/C	-/C	A	-/B	-1	C	-C	1	/C	B
$\chi_{110}^{(32)}$	1	-/B	A	-C	-1	-B	A	-/C	-/B	C	1	/B	-A	B	/C	-/C	-A	/B	-1	C	-C	1	/C	-B
$\chi_{110}^{(33)}$	1	-C	-1	C	1	-/C	-1	/C	-C	C	1	-C	-1	-/C	/C	/C	-1	-C	1	C	C	1	/C	-/C
$\chi_{110}^{(34)}$	1	-/C	-1	/C	1	-C	-1	C	-/C	/C	1	-/C	-1	-C	C	C	-1	-/C	1	/C	/C	1	C	-C
$\chi_{110}^{(35)}$	1	C	1	C	1	/C	1	/C	C	C	1	C	1	/C	/C	/C	1	C	1	C	C	1	/C	/C
$\chi_{110}^{(36)}$	1	/C	1	/C	1	C	1	C	/C	/C	1	/C	1	C	C	C	1	/C	1	/C	/C	1	C	C
$\chi_{110}^{(37)}$	1	-D	-D	A	A	/D	-D	A	-D	-1	-1	/D	/D	-D	-1	A	/D	/D	A	1	A	1	-1	-/D
$\chi_{110}^{(38)}$	1	D	D	A	A	-/D	D	A	D	-1	-1	-/D	-/D	D	-1	A	-/D	-/D	A	1	A	1	-1	/D
$\chi_{110}^{(39)}$	1	/D	/D	-A	-A	-D	/D	-A	/D	-1	-1	-D	-D	/D	-1	-A	-D	-D	-A	1	-A	1	-1	D
$\chi_{110}^{(40)}$	1	-/D	-/D	-A	-A	D	-/D	-A	-/D	-1	-1	D	D	-/D	-1	-A	D	D	-A	1	-A	1	-1	-D
$\chi_{110}^{(41)}$	1	-E	-D	B	A	/E	-D	-/B	-E	-/C	-1	/F	/D	-F	-C	-/B	/D	/F	A	/C	B	1	-C	-/E
$\chi_{110}^{(42)}$	1	E	D	B	A	-/E	D	-/B	E	-/C	-1	-/F	-/D	F	-C	-/B	-/D	-/F	A	/C	B	1	-C	/E
$\chi_{110}^{(43)}$	1	-F	-D	-/B	A	/F	-D	B	-F	-C	-1	/E	/D	-E	-/C	B	/D	/E	A	C	-/B	1	-/C	-/F
$\chi_{110}^{(44)}$	1	F	D	-/B	A	-/F	D	B	F	-C	-1	-/E	-/D	E	-/C	B	-/D	-/E	A	C	-/B	1	-/C	/F
$\chi_{110}^{(45)}$	1	/E	/D	/B	-A	-E	/D	-B	/E	-C	-1	-F	-D	/F	-/C	-B	-D	-F	-A	C	/B	1	-/C	E
$\chi_{110}^{(46)}$	1	-/E	-/D	/B	-A	E	-/D	-B	-/E	-C	-1	F	D	-/F	-/C	-B	D	F	-A	C	/B	1	-/C	-E
$\chi_{110}^{(47)}$	1	/F	/D	-B	-A	-F	/D	/B	/F	-/C	-1	-E	-D	/E	-C	/B	-D	-E	-A	/C	-B	1	-C	F
$\chi_{110}^{(48)}$	1	-/F	-/D	-B	-A	F	-/D	/B	-/F	-/C	-1	E	D	-/E	-C	/B	D	E	-A	/C	-B	1	-C	-F

	30															40								
$\chi_{110}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{110}^{(2)}$	1	1	1	-1	1	-1	1	1	1	-1	-1	-1	-1	-1	1	1	-1	1	1	1	1	-1	-1	1
$\chi_{110}^{(3)}$	-1	1	1	-1	1	-1	-1	-1	1	-1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1
$\chi_{110}^{(4)}$	-1	1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	-1	1	-1	-1	1	1	-1	-1	-1
$\chi_{110}^{(5)}$	-A	1	1	1	1	1	-A	-A	-1	-1	-A	A	A	-A	1	A	1	A	-A	-1	-1	-A	-A	A
$\chi_{110}^{(6)}$	A	1	1	1	1	1	A	A	-1	-1	A	-A	-A	A	1	-A	1	-A	A	-1	-1	A	A	-A
$\chi_{110}^{(7)}$	/B	C	1	/C	/C	1	-B	-A	-C	-C	/B	A	B	/B	/C	B	C	A	/B	-1	-/C	-A	-B	-/B
$\chi_{110}^{(8)}$	-/B	C	1	/C	/C	1	B	A	-C	-C	-/B	-A	-B	-/B	/C	-B	C	-A	-/B	-1	-/C	A	B	/B
$\chi_{110}^{(9)}$	-B	/C	1	C	C	1	/B	-A	-/C	-/C	-B	A	-/B	-B	C	-/B	/C	A	-B	-1	-C	-A	/B	B
$\chi_{110}^{(10)}$	B	/C	1	C	C	1	-/B	A	-/C	-/C	B	-A	/B	B	C	/B	/C	-A	B	-1	-C	A	-/B	-B
$\chi_{110}^{(11)}$	/C	/C	1	-C	C	-1	C	1	/C	-/C	-/C	-1	-C	-/C	C	C	-/C	1	/C	1	C	-1	-C	/C
$\chi_{110}^{(12)}$	C	C	1	-/C	/C	-1	/C	1	C	-C	-C	-1	-/C	-C	/C	/C	-C	1	C	1	/C	-1	-/C	C
$\chi_{110}^{(13)}$	-/C	/C	1	-C	C	-1	-C	-1	/C	-/C	/C	1	C	/C	C	-C	-/C	-1	-/C	1	C	1	C	-/C
$\chi_{110}^{(14)}$	-C	C	1	-/C	/C	-1	-/C	-1	C	-C	C	1	/C	C	/C	-/C	-C	-1	-C	1	/C	1	/C	-C
$\chi_{110}^{(15)}$	-/D	1	-1	A	-1	A	/D	/D	-A	-1	D	-/D	-/D	-D	1	-D	A	-D	/D	-A	-A	D	D	-D
$\chi_{110}^{(16)}$	/D	1	-1	A	-1	A	-/D	-/D	-A	-1	-D	/D	/D	D	1	D	A	D	-/D	-A	-A	-D	-D	D
$\chi_{110}^{(17)}$	D	1	-1	-A	-1	-A	-D	-D	A	-1	-/D	D	D	/D	1	/D	-A	/D	-D	A	A	-/D	-/D	/D
$\chi_{110}^{(18)}$	-D	1	-1	-A	-1	-A	D	D	A	-1	/D	-D	-D	-/D	1	-/D	-A	-/D	D	A	A	/D	/D	-/D
$\chi_{110}^{(19)}$	-/E	C	-1	B	-/C	A	/F	/D	/B	-C	F	-/D	-/F	-F	/C	-E	-/B	-D	/E	-A	-B	D	E	-F
$\chi_{110}^{(20)}$	/E	C	-1	B	-/C	A	-/F	-/D	/B	-C	-F	/D	/F	F	/C	E	-/B	D	-/E	-A	-B	-D	-E	F
$\chi_{110}^{(21)}$	-/F	/C	-1	-/B	-C	A	/E	/D	-B	-/C	E	-/D	-/E	-E	C	-F	B	-D	/F	-A	/B	D	F	-E
$\chi_{110}^{(22)}$	/F	/C	-1	-/B	-C	A	-/E	-/D	-B	-/C	-E	/D	/E	E	C	F	B	D	-/F	-A	/B	-D	-F	E
$\chi_{110}^{(23)}$	E	/C	-1	/B	-C	-A	-F	-D	B	-/C	-/F	D	F	/F	C	/E	-B	/D	-E	A	-/B	-/D	-/E	/F
$\chi_{110}^{(24)}$	-E	/C	-1	/B	-C	-A	F	D	B	-/C	/F	-D	-F	-/F	C	-/E	-B	-/D	E	A	-/B	/D	/E	-/F
$\chi_{110}^{(25)}$	F	C	-1	-B	-/C	-A	-E	-D	-/B	-C	-/E	D	E	/E	/C	/F	/B	/D	-F	A	B	-/D	-/F	/E
$\chi_{110}^{(26)}$	-F	C	-1	-B	-/C	-A	E	D	-/B	-C	/E	-D	-E	-/E	/C	-/F	/B	-/D	F	A	B	/D	/F	-/E
$\chi_{110}^{(27)}$	A	1	1	-1	1	-1	A	A	-1	1	-A	A	A	-A	1	-A	-1	-A	A	-1	-1	-A	-A	-A
$\chi_{110}^{(28)}$	-A	1	1	-1	1	-1	-A	-A	-1	1	A	-A	-A	A	1	A	-1	A	-A	-1	-1	A	A	A
$\chi_{110}^{(29)}$	-/B	C	1	-/C	/C	-1	B	A	-C	C	/B	A	B	/B	/C	-B	-C	-A	-/B	-1	-/C	-A	-B	/B
$\chi_{110}^{(30)}$	/B	C	1	-/C	/C	-1	-B	-A	-C	C	-/B	-A	-B	-/B	/C	B	-C	A	/B	-1	-/C	A	B	-/B
$\chi_{110}^{(31)}$	B	/C	1	-C	C	-1	-/B	A	-/C	/C	-B	A	-/B	-B	C	/B	-/C	-A	B	-1	-C	-A	/B	-B
$\chi_{110}^{(32)}$	-B	/C	1	-C	C	-1	/B	-A	-/C	/C	B	-A	/B	B	C	-/B	-/C	A	-B	-1	-C	A	-/B	B
$\chi_{110}^{(33)}$	-/C	/C	1	C	C	1	-C	-1	/C	/C	-/C	-1	-C	-/C	C	-C	/C	-1	-/C	1	C	-1	-C	-/C
$\chi_{110}^{(34)}$	-C	C	1	/C	/C	1	-/C	-1	C	C	-C	-1	-/C	-C	/C	-/C	C	-1	-C	1	/C	-1	-/C	-C
$\chi_{110}^{(35)}$	/C	/C	1	C	C	1	C	1	/C	/C	/C	1	C	/C	C	C	/C	1	/C	1	C	1	C	/C
$\chi_{110}^{(36)}$	C	C	1	/C	/C	1	/C	1	C	C	C	1	/C	C	/C	/C	C	1	C	1	/C	1	/C	C
$\chi_{110}^{(37)}$	/D	1	-1	-A	-1	-A	-/D	-/D	-A	1	D	-/D	-/D	-D	1	D	-A	D	-/D	-A	-A	D	D	D
$\chi_{110}^{(38)}$	-/D	1	-1	-A	-1	-A	/D	/D	-A	1	-D	/D	/D	D	1	-D	-A	-D	/D	-A	-A	-D	-D	-D
$\chi_{110}^{(39)}$	-D	1	-1	A	-1	A	D	D	A	1	-/D	D	D	/D	1	-/D	A	-/D	D	A	A	-/D	-/D	-/D
$\chi_{110}^{(40)}$	D	1	-1	A	-1	A	-D	-D	A	1	/D	-D	-D	-/D	1	/D	A	/D	-D	A	A	/D	/D	/D
$\chi_{110}^{(41)}$	/E	C	-1	-B	-/C	-A	-/F	-/D	/B	C	F	-/D	-/F	-F	/C	E	/B	D	-/E	-A	-B	D	E	F
$\chi_{110}^{(42)}$	-/E	C	-1	-B	-/C	-A	/F	/D	/B	C	-F	/D	/F	F	/C	-E	/B	-D	/E	-A	-B	-D	-E	-F
$\chi_{110}^{(43)}$	/F	/C	-1	/B	-C	-A	-/E	-/D	-B	/C	E	-/D	-/E	-E	C	F	-B	D	-/F	-A	/B	D	F	E
$\chi_{110}^{(44)}$	-/F	/C	-1	/B	-C	-A	/E	/D	-B	/C	-E	/D	/E	E	C	-F	-B	-D	/F	-A	/B	-D	-F	-E
$\chi_{110}^{(45)}$	-E	/C	-1	-/B	-C	A	F	D	B	/C	-/F	D	F	/F	C	-/E	B	-/D	E	A	-/B	-/D	-/E	-/F
$\chi_{110}^{(46)}$	E	/C	-1	-/B	-C	A	-F	-D	B	/C	/F	-D	-F	-/F	C	/E	B	/D	-E	A	-/B	/D	/E	/F
$\chi_{110}^{(47)}$	-F	C	-1	B	-/C	A	E	D	-/B	C	-/E	D	E	/E	/C	-/F	-/B	-/D	F	A	B	-/D	-/F	-/E
$\chi_{110}^{(48)}$	F	C	-1	B	-/C	A	-E	-D	-/B	C	/E	-D	-E	-/E	/C	/F	-/B	/D	-F	A	B	/D	/F	/E

where A = -E(4) = -ER(-1) = -i, B = -E(12)^7,C = E(3)^2 = (-1-ER(-3))/2 = -1-b3, D = E(8),E = E(24)11,F = E(24)^{19}.

The generators of $G^{s_{111}}$ are:

$$\begin{pmatrix} 0&-1&0&1&0&0&-2&1\\ -1&-2&1&1&1&-1&-2&1\\ -1&-3&1&2&0&0&-3&1\\ -2&-4&2&3&0&-1&-4&2\\ -1&-4&1&3&0&-1&-3&2\\ 0&-3&1&2&0&-1&-2&1\\ 0&-2&0&2&0&-1&-1&0\\ 0&-1&0&1&0&-1&0&0 \end{pmatrix}, \begin{pmatrix} -1&2&1&-2&1&0&0&0\\ -1&3&1&-3&1&1&-1&1\\ -1&4&1&-4&2&0&0&1\\ -1&6&1&-6&3&1&-1&1\\ -1&5&1&-5&2&1&0&0\\ -1&4&0&-3&1&1&0&0\\ 0&3&0&-2&0&1&0&0\\ 0&1&0&-1&0&1&0&0 \end{pmatrix}, \begin{pmatrix} -1&0&1&0&-1&0&0&2\\ -1&1&1&-1&-1&1&-1&3\\ -1&1&1&-1&-1&0&0&4\\ -1&1&1&-1&-2&1&-1&6\\ -1&0&1&-1&-1&1&-1&5\\ -1&0&0&0&-1&1&-1&4\\ 0&0&0&0&-1&1&-1&3\\ 0&0&0&0&-1&1&0&1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{111}}$ are:

$$\begin{pmatrix} 1&0&0&0&0&0&0&0\\ 0&1&0&0&0&0&0&0\\ 0&0&1&0&0&0&0&0\\ 0&0&0&1&0&0&0&0\\ 0&0&0&0&1&0&0&0\\ 0&0&0&0&0&1&0&0\\ 0&0&0&0&0&0&1&0\\ 0&0&0&0&0&0&0&1 \end{pmatrix}, \begin{pmatrix} -1&-1&1&0&1&-1&-1&1\\ 0&-1&1&0&1&-2&-1&2\\ -1&-1&1&0&2&-3&-1&2\\ -1&-1&2&-1&3&-4&-2&4\\ -1&0&2&-1&2&-3&-2&3\\ -1&0&2&-1&2&-3&-1&2\\ 0&0&1&-1&2&-2&-1&1\\ 0&0&1&-1&1&-1&0&0 \end{pmatrix}, \begin{pmatrix} -1&0&0&-1&1&1&0&0\\ -1&0&-1&-1&2&1&-1&1\\ -2&0&-1&-1&2&1&0&1\\ -2&0&-2&-2&4&1&0&1\\ -2&0&-1&-2&3&1&0&1\\ -2&0&-1&-1&2&1&0&0\\ -1&1&-1&-1&1&1&0&0\\ 0&0&-1&0&0&1&0&0 \end{pmatrix},$$

$$\begin{pmatrix} -1&0&0&-1&2&0&-1&0\\ 0&0&0&-2&3&0&-1&-1\\ 0&0&-1&-2&4&0&-2&0\\ 0&0&0&-4&6&0&-3&0\\ 0&0&0&-3&5&0&-3&0\\ 0&0&0&-2&4&-1&-2&0\\ 0&0&0&-1&2&0&-2&0\\ 0&-1&0&0&1&0&-1&0 \end{pmatrix}, \begin{pmatrix} -1&0&0&0&-1&1&1&0\\ -1&1&-1&0&-1&1&1&0\\ -2&1&-1&0&-1&1&2&0\\ -2&1&-2&0&-1&1&3&0\\ -2&1&-1&-1&0&1&2&0\\ -2&0&-1&0&0&1&1&0\\ -1&0&-1&0&0&1&0&1\\ 0&0&-1&0&0&1&0&0 \end{pmatrix}, \begin{pmatrix} -1&0&0&0&0&0&0&0\\ 0&-1&0&0&0&0&0&0\\ 0&0&-1&0&0&0&0&0\\ 0&0&0&-1&0&0&0&0\\ 0&0&0&0&-1&0&0&0\\ 0&0&0&0&0&-1&0&0\\ 0&0&0&0&0&0&-1&0\\ 0&0&0&0&0&0&0&-1 \end{pmatrix},$$

$$\begin{pmatrix} -1&0&0&0&0&1&-2&2\\ -1&-1&0&1&-1&2&-3&2\\ -1&0&0&0&-1&3&-4&3\\ -2&-1&1&0&-1&4&-6&4\\ -2&0&1&0&-1&3&-5&3\\ -1&0&0&0&0&2&-4&2\\ -1&0&0&0&0&2&-3&1\\ -1&0&0&0&0&1&-1&0 \end{pmatrix}, \begin{pmatrix} -1&0&0&1&-1&1&-2&2\\ -1&0&-1&1&0&1&-3&3\\ -2&0&-1&2&-1&1&-3&4\\ -2&0&-2&3&-1&1&-5&6\\ -1&-1&-2&3&-1&1&-4&5\\ -1&-1&-2&3&-1&1&-3&3\\ 0&0&-2&2&-1&1&-2&2\\ 0&0&-1&1&-1&1&-1&1 \end{pmatrix}, \begin{pmatrix} -1&0&1&0&-1&0&0&2\\ -1&1&1&-1&-1&1&-1&3\\ -1&1&1&-1&-1&0&0&4\\ -1&1&1&-1&-2&1&-1&6\\ -1&0&1&-1&-1&1&-1&5\\ -1&0&0&0&-1&1&-1&4\\ 0&0&0&0&-1&1&-1&3\\ 0&0&0&0&-1&1&0&1 \end{pmatrix},$$

$$\begin{pmatrix} -1&0&2&-2&2&-1&0&0\\ -1&1&2&-3&3&-2&1&0\\ -2&0&3&-3&4&-3&1&0\\ -3&1&4&-5&6&-4&1&1\\ -2&1&3&-4&5&-3&0&1\\ -2&1&3&-3&3&-2&0&1\\ -1&1&2&-2&2&-2&0&1\\ 0&0&1&-1&1&-1&0&1 \end{pmatrix}, \begin{pmatrix} -1&0&2&-1&0&-1&1&0\\ -1&0&2&-1&0&-2&2&1\\ -2&0&3&-1&0&-3&3&0\\ -3&1&4&-2&0&-4&4&1\\ -2&1&3&-1&-1&-3&3&1\\ -2&1&3&-1&-1&-2&2&1\\ -1&1&2&-1&0&-2&1&1\\ 0&1&1&-1&0&-1&1&0 \end{pmatrix}, \begin{pmatrix} -1&0&2&-1&0&0&-1&2\\ -2&0&2&0&-1&0&-1&3\\ -3&0&4&-1&-1&0&-1&3\\ -5&0&5&-1&-1&0&-2&5\\ -4&1&4&-1&-1&0&-2&4\\ -3&1&3&-1&-1&1&-2&3\\ -2&1&2&-1&0&0&-1&2\\ -1&1&1&-1&0&0&0&1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & -1 & 1 & 1 & -1 & -1 \\ -2 & 1 & 0 & -1 & 2 & 0 & -1 & -1 \\ -3 & 1 & 0 & -1 & 2 & 1 & -1 & -2 \\ -4 & 2 & 0 & -2 & 4 & 0 & -1 & -3 \\ -3 & 2 & 0 & -2 & 3 & 0 & 0 & -3 \\ -2 & 1 & 0 & -1 & 2 & 0 & 0 & -3 \\ -1 & 1 & -1 & 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & -1 & 0 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 1 & -1 & 1 \\ -2 & 1 & 1 & -2 & 1 & 2 & -1 & 0 \\ -2 & 1 & 2 & -3 & 1 & 3 & -2 & 1 \\ -4 & 1 & 3 & -4 & 2 & 4 & -3 & 1 \\ -3 & 1 & 2 & -3 & 2 & 3 & -3 & 1 \\ -2 & 1 & 1 & -2 & 1 & 3 & -3 & 1 \\ -2 & 1 & 1 & -1 & 0 & 2 & -2 & 1 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & -1 & 1 & 0 & 1 \\ -2 & 0 & 1 & 0 & -2 & 2 & 0 & 1 \\ -2 & 1 & 2 & -1 & -3 & 3 & 0 & 1 \\ -4 & 1 & 3 & -1 & -4 & 4 & 0 & 1 \\ -3 & 1 & 2 & 0 & -4 & 3 & 0 & 1 \\ -2 & 1 & 1 & 0 & -3 & 3 & -1 & 1 \\ -2 & 1 & 1 & 0 & -2 & 2 & -1 & 1 \\ -1 & 1 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 1 & -1 & 0 & -1 \\ 0 & 2 & 1 & -2 & 2 & -2 & 0 & -1 \\ -1 & 2 & 1 & -2 & 3 & -3 & 0 & -1 \\ -1 & 4 & 2 & -4 & 4 & -4 & 0 & -1 \\ -1 & 3 & 2 & -3 & 3 & -3 & -1 & 0 \\ -1 & 2 & 2 & -2 & 2 & -3 & 0 & 0 \\ 0 & 1 & 1 & -1 & 1 & -2 & 0 & 0 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 2 & 0 & -1 & 0 & 1 & -1 & 0 \\ -1 & 2 & 0 & -1 & 0 & 2 & -2 & -1 \\ -1 & 3 & 0 & -2 & 0 & 3 & -3 & 0 \\ -2 & 4 & 1 & -3 & 0 & 4 & -4 & -1 \\ -2 & 3 & 1 & -2 & 0 & 3 & -4 & 0 \\ -1 & 2 & 0 & -1 & 0 & 2 & -3 & 0 \\ -1 & 1 & 0 & 0 & -1 & 2 & -2 & 0 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 2 & 1 & -2 & 1 & 0 & 0 & 0 \\ -1 & 3 & 1 & -3 & 1 & 1 & -1 & 1 \\ -1 & 4 & 1 & -4 & 2 & 0 & 0 & 1 \\ -1 & 6 & 1 & -6 & 3 & 1 & -1 & 1 \\ -1 & 5 & 1 & -5 & 2 & 1 & 0 & 0 \\ -1 & 4 & 0 & -3 & 1 & 1 & 0 & 0 \\ 0 & 3 & 0 & -2 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 2 & 2 & -2 & 0 & 0 & 0 & 0 \\ -2 & 3 & 2 & -2 & 0 & 0 & 0 & 0 \\ -3 & 3 & 4 & -3 & 0 & 0 & 0 & 0 \\ -5 & 5 & 5 & -4 & 0 & 0 & 0 & 0 \\ -4 & 4 & 4 & -3 & 0 & 0 & -1 & 1 \\ -3 & 3 & 3 & -2 & -1 & 1 & -1 & 1 \\ -2 & 2 & 2 & -1 & -1 & 0 & 0 & 1 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 1 & 1 & 0 & -2 & 1 \\ 1 & -1 & -1 & 1 & 1 & 0 & -3 & 1 \\ 1 & -1 & -2 & 1 & 2 & 0 & -4 & 2 \\ 2 & -2 & -2 & 1 & 3 & 0 & -6 & 3 \\ 1 & -1 & -1 & 0 & 3 & 0 & -5 & 2 \\ 1 & -1 & -1 & 0 & 3 & -1 & -3 & 1 \\ 1 & -1 & -1 & 0 & 2 & 0 & -2 & 0 \\ 0 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & -1 & 2 & 0 & 0 & -1 \\ -1 & -2 & 1 & -1 & 3 & -1 & 0 & -1 \\ -1 & -3 & 1 & -1 & 3 & 0 & 0 & -2 \\ -2 & -4 & 2 & -2 & 5 & -1 & 1 & -3 \\ -2 & -3 & 2 & -2 & 4 & -1 & 1 & -2 \\ -1 & -2 & 2 & -2 & 3 & -1 & 1 & -2 \\ -1 & -1 & 1 & -1 & 2 & -1 & 1 & -2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -1 & -1 & 1 & 0 & 0 & -1 & 2 & -2 \\ -1 & -2 & 1 & 0 & 0 & 0 & 2 & -3 \\ -2 & -3 & 2 & 0 & 0 & -1 & 4 & -4 \\ -2 & -2 & 2 & -1 & 1 & -1 & 3 & -3 \\ -1 & -2 & 2 & -1 & 1 & -1 & 2 & -2 \\ -1 & -2 & 1 & 0 & 1 & -1 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -2 & 1 \\ -1 & -2 & 1 & 1 & 1 & -1 & -2 & 1 \\ -1 & -3 & 1 & 2 & 0 & 0 & -3 & 1 \\ -2 & -4 & 2 & 3 & 0 & -1 & -4 & 2 \\ -1 & -4 & 1 & 3 & 0 & -1 & -3 & 2 \\ 0 & -3 & 1 & 2 & 0 & -1 & -2 & 1 \\ 0 & -2 & 0 & 2 & 0 & -1 & -1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 0 & -1 & 0 & 1 \\ -1 & -1 & 3 & -1 & 0 & -1 & 0 & 1 \\ 0 & -2 & 3 & -1 & 0 & -1 & 0 & 1 \\ -1 & -3 & 5 & -1 & -1 & -1 & 0 & 2 \\ -1 & -3 & 4 & -1 & 0 & -1 & 0 & 2 \\ 0 & -2 & 3 & -1 & 0 & -1 & 0 & 2 \\ 0 & -2 & 2 & 0 & 0 & -1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 1 & -2 & -1 & 2 \\ -1 & -1 & 2 & 0 & 2 & -3 & -1 & 2 \\ -1 & -1 & 2 & 0 & 3 & -4 & -2 & 4 \\ -1 & 0 & 2 & -1 & 3 & -3 & -2 & 3 \\ -1 & 0 & 2 & -1 & 2 & -2 & -1 & 2 \\ 0 & 0 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 0 & 1 & 1 & -2 \\ 0 & 0 & -2 & 1 & 0 & 0 & 2 & -3 \\ -1 & 0 & -2 & 1 & 0 & 1 & 2 & -4 \\ -1 & 0 & -3 & 1 & 1 & 0 & 4 & -6 \\ -1 & 1 & -2 & 0 & 1 & 0 & 3 & -5 \\ -1 & 0 & -1 & 0 & 1 & 0 & 2 & -4 \\ -1 & 0 & -1 & 0 & 1 & 0 & 1 & -2 \\ 0 & 0 & -1 & 0 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 1 & -2 & 2 \\ -1 & 0 & 0 & 1 & -1 & 2 & -3 & 2 \\ -1 & 0 & 1 & 0 & -1 & 3 & -4 & 3 \\ -2 & -1 & 1 & 1 & -1 & 4 & -6 & 4 \\ -2 & 0 & 1 & 0 & 0 & 3 & -5 & 3 \\ -1 & 0 & 0 & 0 & 0 & 3 & -4 & 2 \\ -1 & 0 & 0 & 0 & 0 & 2 & -2 & 1 \\ -1 & 0 & 0 & 0 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & -2 & 2 & -1 & 1 & 0 \\ 0 & 0 & 2 & -3 & 2 & 0 & 0 & 1 \\ 1 & 0 & 2 & -4 & 3 & -1 & 1 & 1 \\ 1 & 0 & 3 & -6 & 4 & 0 & 1 & 1 \\ 0 & 0 & 3 & -5 & 3 & 0 & 1 & 1 \\ 0 & 1 & 2 & -4 & 2 & 0 & 1 & 1 \\ 0 & 1 & 2 & -3 & 1 & 0 & 1 & 0 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -1 & 0 & -1 & 2 & 0 \\ 0 & 1 & 2 & -2 & -1 & 0 & 2 & 0 \\ 1 & 1 & 2 & -3 & 0 & -1 & 3 & 0 \\ 1 & 1 & 3 & -4 & -1 & 0 & 4 & 0 \\ 0 & 1 & 3 & -4 & 0 & 0 & 3 & 0 \\ 0 & 1 & 2 & -3 & 0 & 0 & 2 & 1 \\ 0 & 0 & 2 & -2 & 0 & 0 & 1 & 1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & 0 & -1 & -1 & 2 \\ 0 & 0 & 2 & -1 & 0 & 0 & -2 & 3 \\ 1 & 0 & 2 & -1 & 0 & -1 & -2 & 4 \\ 1 & 0 & 3 & -1 & -1 & 0 & -4 & 6 \\ 1 & -1 & 2 & 0 & -1 & 0 & -3 & 5 \\ 1 & 0 & 1 & 0 & -1 & 0 & -2 & 4 \\ 1 & 0 & 1 & 0 & -1 & 0 & -1 & 2 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 0 & 2 & -1 \\ 1 & 2 & -1 & -1 & -1 & 1 & 2 & -1 \\ 1 & 3 & -1 & -2 & 0 & 0 & 3 & -1 \\ 2 & 4 & -2 & -3 & 0 & 1 & 4 & -2 \\ 1 & 4 & -1 & -3 & 0 & 1 & 3 & -2 \\ 0 & 3 & -1 & -2 & 0 & 1 & 2 & -1 \\ 0 & 2 & 0 & -2 & 0 & 1 & 1 & 0 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 1 & -2 & 2 & -1 & 0 & -1 \\ -1 & 1 & 3 & -3 & 2 & -1 & 0 & -1 \\ 0 & 1 & 3 & -4 & 3 & -1 & 0 & -2 \\ -1 & 2 & 5 & -6 & 4 & -1 & 0 & -3 \\ -1 & 2 & 4 & -5 & 3 & -1 & 1 & -3 \\ 0 & 2 & 3 & -4 & 2 & -1 & 1 & -2 \\ 0 & 1 & 2 & -2 & 1 & -1 & 1 & -2 \\ 0 & 0 & 1 & -1 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 1 & -1 & 0 & -1 \\ 2 & 0 & -1 & 0 & 2 & -2 & 0 & -1 \\ 2 & -1 & -2 & 1 & 3 & -3 & 0 & -1 \\ 4 & -1 & -3 & 1 & 4 & -4 & 0 & -1 \\ 3 & -1 & -2 & 0 & 4 & -3 & 0 & -1 \\ 2 & -1 & -1 & 0 & 3 & -3 & 1 & -1 \\ 2 & -1 & -1 & 0 & 2 & -2 & 1 & -1 \\ 1 & -1 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -2 & 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & -2 & 1 & 0 & 2 & -2 & -1 \\ 2 & 0 & -3 & 1 & 0 & 3 & -3 & 0 \\ 3 & -1 & -4 & 2 & 0 & 4 & -4 & -1 \\ 2 & -1 & -3 & 1 & 1 & 3 & -3 & -1 \\ 2 & -1 & -3 & 1 & 1 & 2 & -2 & -1 \\ 1 & -1 & -2 & 1 & 0 & 2 & -1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 1 & -1 & 2 & -2 \\ 1 & 0 & 1 & -1 & 0 & -1 & 3 & -3 \\ 2 & 0 & 1 & -2 & 1 & -1 & 3 & -4 \\ 2 & 0 & 2 & -3 & 1 & -1 & 5 & -6 \\ 1 & 1 & 2 & -3 & 1 & -1 & 4 & -5 \\ 1 & 1 & 2 & -3 & 1 & -1 & 3 & -3 \\ 0 & 0 & 2 & -2 & 1 & -1 & 2 & -2 \\ 0 & 0 & 1 & -1 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & -1 & 1 & -1 & 1 \\ -2 & -1 & 0 & 1 & 0 & 0 & -1 & 1 \\ -3 & -2 & 0 & 2 & -1 & 1 & -1 & 1 \\ -4 & -3 & 0 & 3 & -1 & 0 & -1 & 2 \\ -3 & -3 & 0 & 2 & 0 & 0 & -1 & 2 \\ -2 & -3 & 0 & 2 & 0 & 0 & -1 & 1 \\ -1 & -2 & -1 & 2 & 0 & 0 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}.$$

The character table of $G^{s_{111}}$:

											10									20				
$\chi_{111}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{111}^{(2)}$	1	1	-1	1	-1	1	1	-1	-1	1	1	1	-1	1	1	1	1	-1	1	1	-1	-1	-1	-1
$\chi_{111}^{(3)}$	1	1	-1	-1	1	1	1	1	1	-1	1	1	-1	-1	1	-1	-1	-1	-1	1	-1	1	1	1
$\chi_{111}^{(4)}$	1	1	1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	1	-1	-1	1	-1	1	1	-1	-1	-1
$\chi_{111}^{(5)}$	1	A	-1	1	-1	1	/A	-1	-/A	/A	/A	1	-A	A	A	A	/A	-/A	1	1	-/A	-/A	-/A	-1
$\chi_{111}^{(6)}$	1	/A	-1	1	-1	1	A	-1	-A	A	A	1	-/A	/A	/A	/A	A	-A	1	1	-A	-A	-A	-1
$\chi_{111}^{(7)}$	1	A	-1	-1	1	1	/A	1	/A	-/A	/A	1	-A	-A	A	-A	-/A	-/A	-1	1	-/A	/A	/A	1
$\chi_{111}^{(8)}$	1	/A	-1	-1	1	1	A	1	A	-A	A	1	-/A	-/A	/A	-/A	-A	-A	-1	1	-A	A	A	1
$\chi_{111}^{(9)}$	1	/A	1	-1	-1	1	A	-1	-A	-A	A	1	/A	-/A	/A	-/A	-A	A	-1	1	A	-A	-A	-1
$\chi_{111}^{(10)}$	1	A	1	-1	-1	1	/A	-1	-/A	-/A	/A	1	A	-A	A	-A	-/A	/A	-1	1	/A	-/A	-/A	-1
$\chi_{111}^{(11)}$	1	/A	1	1	1	1	A	1	A	A	A	1	/A	/A	/A	/A	A	A	1	1	A	A	A	1
$\chi_{111}^{(12)}$	1	A	1	1	1	1	/A	1	/A	/A	/A	1	A	A	A	A	/A	/A	1	1	/A	/A	/A	1
$\chi_{111}^{(13)}$	1	1	B	-1	B	-1	1	B	-B	-1	-1	1	-B	-1	-1	1	1	-B	1	-1	B	B	B	-B
$\chi_{111}^{(14)}$	1	1	-B	-1	-B	-1	1	-B	B	-1	-1	1	B	-1	-1	1	1	B	1	-1	-B	-B	-B	B
$\chi_{111}^{(15)}$	1	1	B	1	-B	-1	1	-B	B	1	-1	1	-B	1	-1	-1	-1	-B	-1	-1	B	-B	-B	B
$\chi_{111}^{(16)}$	1	1	-B	1	B	-1	1	B	-B	1	-1	1	B	1	-1	-1	-1	B	-1	-1	-B	B	B	-B
$\chi_{111}^{(17)}$	1	A	B	-1	B	-1	/A	B	D	-/A	-/A	1	-/D	-A	-A	A	/A	D	1	-1	-D	-D	-D	-B
$\chi_{111}^{(18)}$	1	/A	B	-1	B	-1	A	B	-/D	-A	-A	1	D	-/A	-/A	/A	A	-/D	1	-1	/D	/D	/D	-B
$\chi_{111}^{(19)}$	1	/A	-B	-1	-B	-1	A	-B	/D	-A	-A	1	-D	-/A	-/A	/A	A	/D	1	-1	-/D	-/D	-/D	B
$\chi_{111}^{(20)}$	1	A	-B	-1	-B	-1	/A	-B	-D	-/A	-/A	1	/D	-A	-A	A	/A	-D	1	-1	D	D	D	B
$\chi_{111}^{(21)}$	1	A	B	1	-B	-1	/A	-B	-D	/A	-/A	1	-/D	A	-A	-A	-/A	D	-1	-1	-D	D	D	B
$\chi_{111}^{(22)}$	1	/A	B	1	-B	-1	A	-B	/D	A	-A	1	D	/A	-/A	-/A	-A	-/D	-1	-1	/D	-/D	-/D	B
$\chi_{111}^{(23)}$	1	/A	-B	1	B	-1	A	B	-/D	A	-A	1	-D	/A	-/A	-/A	-A	/D	-1	-1	-/D	/D	/D	-B
$\chi_{111}^{(24)}$	1	A	-B	1	B	-1	/A	B	D	/A	-/A	1	/D	A	-A	-A	-/A	-D	-1	-1	D	-D	-D	-B
$\chi_{111}^{(25)}$	2	-1	.	.	-1	2	-1	2	-1	.	2	-1	.	.	2	.	.	.	.	-1	.	-1	2	-1
$\chi_{111}^{(26)}$	2	-1	.	.	1	2	-1	-2	1	.	2	-1	.	.	2	.	.	.	.	-1	.	1	-2	1
$\chi_{111}^{(27)}$	2	-1	.	.	B	-2	-1	C	-B	.	-2	-1	.	.	-2	.	.	.	.	1	.	B	C	-B
$\chi_{111}^{(28)}$	2	-1	.	.	-B	-2	-1	-C	B	.	-2	-1	.	.	-2	.	.	.	.	1	.	-B	-C	B
$\chi_{111}^{(29)}$	2	-A	.	.	B	-2	-/A	C	D	.	E	-1	.	.	/E	.	.	.	.	1	.	-D	F	-B
$\chi_{111}^{(30)}$	2	-/A	.	.	B	-2	-A	C	-/D	.	/E	-1	.	.	E	.	.	.	.	1	.	/D	-/F	-B
$\chi_{111}^{(31)}$	2	-A	.	.	-B	-2	-/A	-C	-D	.	E	-1	.	.	/E	.	.	.	.	1	.	D	-F	B
$\chi_{111}^{(32)}$	2	-/A	.	.	-B	-2	-A	-C	/D	.	/E	-1	.	.	E	.	.	.	.	1	.	-/D	/F	B
$\chi_{111}^{(33)}$	2	-A	.	.	-1	2	-/A	2	-/A	.	-E	-1	.	.	-/E	.	.	.	.	-1	.	-/A	-E	-1
$\chi_{111}^{(34)}$	2	-/A	.	.	-1	2	-A	2	-A	.	-/E	-1	.	.	-E	.	.	.	.	-1	.	-A	-/E	-1
$\chi_{111}^{(35)}$	2	-A	.	.	1	2	-/A	-2	/A	.	-E	-1	.	.	-/E	.	.	.	.	-1	.	/A	E	1
$\chi_{111}^{(36)}$	2	-/A	.	.	1	2	-A	-2	A	.	-/E	-1	.	.	-E	.	.	.	.	-1	.	A	/E	1

	30											
$\chi_{111}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{111}^{(2)}$	1	-1	1	-1	-1	-1	-1	-1	1	1	-1	-1
$\chi_{111}^{(3)}$	1	1	1	-1	1	1	1	-1	1	1	1	1
$\chi_{111}^{(4)}$	1	-1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{111}^{(5)}$	/A	-A	A	-A	-A	-A	-/A	-1	A	/A	-1	-A
$\chi_{111}^{(6)}$	A	-/A	/A	-/A	-/A	-/A	-A	-1	/A	A	-1	-/A
$\chi_{111}^{(7)}$	/A	A	A	-A	A	A	/A	-1	A	/A	1	A
$\chi_{111}^{(8)}$	A	/A	/A	-/A	/A	/A	A	-1	/A	A	1	/A
$\chi_{111}^{(9)}$	A	-/A	/A	/A	-/A	-/A	-A	1	/A	A	-1	-/A
$\chi_{111}^{(10)}$	/A	-A	A	A	-A	-A	-/A	1	A	/A	-1	-A
$\chi_{111}^{(11)}$	A	/A	/A	/A	/A	/A	A	1	/A	A	1	/A
$\chi_{111}^{(12)}$	/A	A	A	A	A	A	/A	1	A	/A	1	A
$\chi_{111}^{(13)}$	-1	-B	-1	B	B	B	-B	-B	1	1	-B	-B
$\chi_{111}^{(14)}$	-1	B	-1	-B	-B	-B	B	B	1	1	B	B
$\chi_{111}^{(15)}$	-1	B	-1	B	-B	-B	B	-B	1	1	B	B
$\chi_{111}^{(16)}$	-1	-B	-1	-B	B	B	-B	B	1	1	-B	-B
$\chi_{111}^{(17)}$	-/A	-/D	-A	/D	/D	/D	D	-B	A	/A	-B	-/D
$\chi_{111}^{(18)}$	-A	D	-/A	-D	-D	-D	-/D	-B	/A	A	-B	D
$\chi_{111}^{(19)}$	-A	-D	-/A	D	D	D	/D	B	/A	A	B	-D
$\chi_{111}^{(20)}$	-/A	/D	-A	-/D	-/D	-/D	-D	B	A	/A	B	/D
$\chi_{111}^{(21)}$	-/A	/D	-A	/D	-/D	-/D	-D	-B	A	/A	B	/D
$\chi_{111}^{(22)}$	-A	-D	-/A	-D	D	D	/D	-B	/A	A	B	-D
$\chi_{111}^{(23)}$	-A	D	-/A	D	-D	-D	-/D	B	/A	A	-B	D
$\chi_{111}^{(24)}$	-/A	-/D	-A	-/D	/D	/D	D	B	A	/A	-B	-/D
$\chi_{111}^{(25)}$	-1	2	-1	.	-1	2	2	.	2	2	2	-1
$\chi_{111}^{(26)}$	-1	-2	-1	.	1	-2	-2	.	2	2	-2	1
$\chi_{111}^{(27)}$	1	-C	1	.	B	C	-C	.	2	2	-C	-B
$\chi_{111}^{(28)}$	1	C	1	.	-B	-C	C	.	2	2	C	B
$\chi_{111}^{(29)}$	/A	/F	A	.	/D	-/F	-F	.	-/E	-E	-C	-/D
$\chi_{111}^{(30)}$	A	-F	/A	.	-D	F	/F	.	-E	-/E	-C	D
$\chi_{111}^{(31)}$	/A	-/F	A	.	-/D	/F	F	.	-/E	-E	C	/D
$\chi_{111}^{(32)}$	A	F	/A	.	D	-F	-/F	.	-E	-/E	C	-D
$\chi_{111}^{(33)}$	-/A	-/E	-A	.	-A	-/E	-E	.	-/E	-E	2	-A
$\chi_{111}^{(34)}$	-A	-E	-/A	.	-/A	-E	-/E	.	-E	-/E	2	-/A
$\chi_{111}^{(35)}$	-/A	/E	-A	.	A	/E	E	.	-/E	-E	-2	A
$\chi_{111}^{(36)}$	-A	E	-/A	.	/A	E	/E	.	-E	-/E	-2	/A

where A = E(3)^2 = (-1-ER(-3))/2 = -1-b3, B = E(4) = ER(-1) = i, C = -2*E(4) = -2*ER(-1) = -2i, D = -E(12)^7,E = -2*E(3) = 1-ER(-3) = 1-i3, F = -2*E(12)^7.

The generators of $G^{s_{112}}$ are:

$$\begin{pmatrix} 1 & -1 & -1 & 1 & 0 & 0 & -1 & 0 \\ 0 & -2 & 0 & 1 & 0 & 0 & -1 & 0 \\ 1 & -2 & -1 & 2 & -1 & 0 & -1 & 0 \\ 1 & -4 & -1 & 3 & -1 & 0 & -1 & -1 \\ 1 & -3 & -1 & 2 & -1 & 1 & -1 & -1 \\ 1 & -2 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 1 & -1 & 3 & -3 & 1 & 0 \\ 0 & -2 & 2 & -1 & 3 & -3 & 1 & 0 \\ 0 & -2 & 3 & -2 & 5 & -5 & 1 & 0 \\ -1 & -1 & 3 & -2 & 4 & -4 & 1 & 0 \\ -1 & -1 & 3 & -2 & 3 & -3 & 1 & 0 \\ 0 & 0 & 2 & -2 & 2 & -2 & 1 & 0 \\ 0 & 0 & 1 & -1 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & -1 & 2 & -1 & 0 \\ 0 & 1 & -2 & 1 & -1 & 2 & -2 & 0 \\ 0 & 1 & -2 & 1 & -2 & 4 & -3 & 0 \\ 0 & 2 & -3 & 1 & -2 & 5 & -4 & -1 \\ -1 & 2 & -2 & 1 & -2 & 4 & -3 & -1 \\ -1 & 1 & -1 & 1 & -2 & 3 & -2 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ 0 & 1 & 1 & -1 & -1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -2 & 0 & 0 & 2 & 0 \\ 0 & 2 & 1 & -2 & -1 & 1 & 3 & 0 \\ 0 & 1 & 1 & -1 & -1 & 0 & 3 & 0 \\ 0 & 1 & 0 & 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{112}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 1 & 0 & 2 & -2 & 0 & 0 \\ -1 & -3 & 2 & 0 & 2 & -3 & 1 & 0 \\ -2 & -4 & 3 & 0 & 3 & -4 & 0 & 1 \\ -2 & -3 & 3 & -1 & 3 & -3 & 0 & 1 \\ -1 & -2 & 2 & -1 & 2 & -2 & 0 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 1 & 0 & 2 & -2 & 0 & 0 \\ -1 & -3 & 2 & 0 & 2 & -3 & 1 & 0 \\ -2 & -4 & 3 & 0 & 3 & -4 & 1 & -1 \\ -2 & -3 & 3 & -1 & 3 & -3 & 1 & -1 \\ -1 & -2 & 2 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 2 & -1 & 2 & -2 & 1 & 0 \\ -1 & -2 & 2 & -1 & 2 & -3 & 2 & 0 \\ -2 & -4 & 3 & -1 & 3 & -4 & 3 & 0 \\ -1 & -4 & 2 & 0 & 2 & -3 & 2 & 0 \\ 0 & -3 & 1 & 0 & 2 & -3 & 2 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 2 & -1 & 2 & -2 & 1 & 0 \\ -1 & -2 & 2 & -1 & 2 & -3 & 2 & 0 \\ -2 & -3 & 4 & -2 & 3 & -4 & 2 & 1 \\ -1 & -3 & 3 & -1 & 2 & -3 & 1 & 1 \\ 0 & -2 & 2 & -1 & 2 & -3 & 1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 2 & -1 & 2 & -2 & 1 & 0 \\ -1 & -2 & 2 & -1 & 2 & -3 & 2 & 0 \\ -2 & -3 & 4 & -2 & 3 & -4 & 3 & -1 \\ -1 & -3 & 3 & -1 & 2 & -3 & 2 & -1 \\ 0 & -2 & 2 & -1 & 2 & -3 & 2 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -1 & 1 & -1 & 3 & -3 & 1 & 0 \\ -2 & -2 & 2 & -1 & 3 & -3 & 1 & 0 \\ -3 & -3 & 2 & -1 & 5 & -5 & 2 & 0 \\ -2 & -3 & 1 & 0 & 4 & -4 & 1 & 0 \\ -1 & -3 & 1 & 0 & 3 & -3 & 1 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -1 & 1 & -1 & 3 & -3 & 1 & 0 \\ -2 & -2 & 2 & -1 & 3 & -3 & 1 & 0 \\ -3 & -2 & 3 & -2 & 5 & -5 & 1 & 1 \\ -2 & -2 & 2 & -1 & 4 & -4 & 0 & 1 \\ -1 & -2 & 2 & -1 & 3 & -3 & 0 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -1 & 1 & -1 & 3 & -3 & 1 & 0 \\ -2 & -2 & 2 & -1 & 3 & -3 & 1 & 0 \\ -3 & -2 & 3 & -2 & 5 & -5 & 2 & -1 \\ -2 & -2 & 2 & -1 & 4 & -4 & 1 & -1 \\ -1 & -2 & 2 & -1 & 3 & -3 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 2 & -4 & 2 & 0 \\ 0 & -4 & 1 & 1 & 2 & -5 & 3 & 0 \\ 0 & -3 & 1 & 0 & 2 & -4 & 3 & 0 \\ 0 & -2 & 0 & 0 & 2 & -3 & 2 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 2 & -4 & 2 & 0 \\ 0 & -3 & 2 & 0 & 2 & -5 & 2 & 1 \\ 0 & -2 & 2 & -1 & 2 & -4 & 2 & 1 \\ 0 & -1 & 1 & -1 & 2 & -3 & 1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -2 & 1 & 0 & 2 & -4 & 2 & 0 \\ 0 & -3 & 2 & 0 & 2 & -5 & 3 & -1 \\ 0 & -2 & 2 & -1 & 2 & -4 & 3 & -1 \\ 0 & -1 & 1 & -1 & 2 & -3 & 2 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 2 & -3 & 1 & 0 \\ -1 & -2 & 1 & 0 & 3 & -4 & 1 & 0 \\ -1 & -3 & 0 & 1 & 4 & -6 & 2 & 0 \\ -1 & -2 & 0 & 0 & 4 & -5 & 2 & 0 \\ -1 & -2 & 0 & 0 & 3 & -3 & 1 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 2 & -3 & 1 & 0 \\ -1 & -2 & 1 & 0 & 3 & -4 & 1 & 0 \\ -1 & -2 & 1 & 0 & 4 & -6 & 1 & 1 \\ -1 & -1 & 1 & -1 & 4 & -5 & 1 & 1 \\ -1 & -1 & 1 & -1 & 3 & -3 & 0 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 2 & -3 & 1 & 0 \\ -1 & -2 & 1 & 0 & 3 & -4 & 1 & 0 \\ -1 & -2 & 1 & 0 & 4 & -6 & 2 & -1 \\ -1 & -1 & 1 & -1 & 4 & -5 & 2 & -1 \\ -1 & -1 & 1 & -1 & 3 & -3 & 1 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 1 & -1 & 2 & -3 & 2 & 0 \\ -1 & -1 & 1 & -1 & 3 & -4 & 2 & 0 \\ -1 & -2 & 1 & -1 & 4 & -6 & 4 & 0 \\ 0 & -2 & 0 & 0 & 3 & -5 & 3 & 0 \\ 0 & -2 & 0 & 0 & 3 & -4 & 2 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 1 & -1 & 2 & -3 & 2 & 0 \\ -1 & -1 & 1 & -1 & 3 & -4 & 2 & 0 \\ -1 & -1 & 2 & -2 & 4 & -6 & 3 & 1 \\ 0 & -1 & 1 & -1 & 3 & -5 & 2 & 1 \\ 0 & -1 & 1 & -1 & 3 & -4 & 1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 1 & -1 & 2 & -3 & 2 & 0 \\ -1 & -1 & 1 & -1 & 3 & -4 & 2 & 0 \\ -1 & -1 & 2 & -2 & 4 & -6 & 4 & -1 \\ 0 & -1 & 1 & -1 & 3 & -5 & 3 & -1 \\ 0 & -1 & 1 & -1 & 3 & -4 & 2 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -2 & 0 & 0 & 1 & 1 & -2 & 1 \\ -2 & -2 & 0 & 1 & 0 & 1 & -2 & 1 \\ -1 & -2 & 0 & 1 & 0 & 0 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -2 & 0 & 0 & 1 & 1 & -1 & -1 \\ -2 & -2 & 0 & 1 & 0 & 1 & -1 & -1 \\ -1 & -2 & 0 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -1 & 1 & -1 & 1 & 1 & -2 & 0 \\ -2 & -1 & 1 & 0 & 0 & 1 & -2 & 0 \\ -1 & -1 & 1 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 1 & -1 & 1 & -1 & 0 \\ -1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \\ -2 & -2 & 0 & 2 & -2 & 1 & -1 & 1 \\ -1 & -2 & 0 & 1 & -1 & 1 & -1 & 1 \\ 0 & -1 & -1 & 1 & -1 & 1 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 1 & -1 & 1 & -1 & 0 \\ -1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \\ -2 & -2 & 0 & 2 & -2 & 1 & 0 & -1 \\ -1 & -2 & 0 & 1 & -1 & 1 & 0 & -1 \\ 0 & -1 & -1 & 1 & -1 & 1 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 1 & -1 & 1 & -1 & 0 \\ -1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \\ -2 & -1 & 1 & 1 & -2 & 1 & -1 & 0 \\ -1 & -1 & 1 & 0 & -1 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 & 0 & -1 & 0 \\ -2 & -1 & 0 & 1 & 0 & 0 & -1 & 0 \\ -3 & -1 & -1 & 2 & 0 & 0 & -2 & 1 \\ -2 & -1 & -1 & 1 & 1 & 0 & -2 & 1 \\ -1 & -1 & -1 & 1 & 0 & 1 & -2 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 & 0 & -1 & 0 \\ -2 & -1 & 0 & 1 & 0 & 0 & -1 & 0 \\ -3 & -1 & -1 & 2 & 0 & 0 & -1 & -1 \\ -2 & -1 & -1 & 1 & 1 & 0 & -1 & -1 \\ -1 & -1 & -1 & 1 & 0 & 1 & -1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 & 0 & -1 & 0 \\ -2 & -1 & 0 & 1 & 0 & 0 & -1 & 0 \\ -3 & 0 & 0 & 1 & 0 & 0 & -2 & 0 \\ -2 & 0 & 0 & 0 & 1 & 0 & -2 & 0 \\ -1 & 0 & 0 & 0 & 0 & 1 & -2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 0 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & -1 & 1 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -1 & 0 & -2 & 0 & 2 & -1 & -1 & 1 \\ -1 & 0 & -2 & 1 & 1 & -1 & -1 & 1 \\ -1 & -1 & -1 & 1 & 1 & -1 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -1 & 0 & -2 & 0 & 2 & -1 & 0 & -1 \\ -1 & 0 & -2 & 1 & 1 & -1 & 0 & -1 \\ -1 & -1 & -1 & 1 & 1 & -1 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & -1 & 0 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \\ -1 & 0 & -2 & 2 & -1 & -1 & 0 & 1 \\ 0 & 0 & -2 & 1 & 0 & -1 & 0 & 1 \\ 0 & 0 & -2 & 1 & 0 & 0 & -1 & 1 \\ 0 & -1 & -1 & 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \\ -1 & 0 & -2 & 2 & -1 & -1 & 1 & -1 \\ 0 & 0 & -2 & 1 & 0 & -1 & 1 & -1 \\ 0 & 0 & -2 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \\ 0 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -3 & 3 & -1 & 0 \\ -1 & 2 & 0 & 1 & -4 & 3 & 0 & 0 \\ -2 & 2 & 0 & 2 & -6 & 5 & -1 & 1 \\ -1 & 1 & 0 & 2 & -5 & 4 & -1 & 1 \\ 0 & 1 & -1 & 2 & -4 & 3 & -1 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -3 & 3 & -1 & 0 \\ -1 & 2 & 0 & 1 & -4 & 3 & 0 & 0 \\ -2 & 2 & 0 & 2 & -6 & 5 & 0 & -1 \\ -1 & 1 & 0 & 2 & -5 & 4 & 0 & -1 \\ 0 & 1 & -1 & 2 & -4 & 3 & 0 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -3 & 3 & -1 & 0 \\ -1 & 2 & 0 & 1 & -4 & 3 & 0 & 0 \\ -2 & 3 & 1 & 1 & -6 & 5 & -1 & 0 \\ -1 & 2 & 1 & 1 & -5 & 4 & -1 & 0 \\ 0 & 2 & 0 & 1 & -4 & 3 & -1 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 1 & 0 & 3 & -5 & 4 & -2 & 1 \\ -2 & 1 & 0 & 2 & -4 & 4 & -2 & 1 \\ -1 & 1 & 0 & 1 & -3 & 3 & -1 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 1 & 0 & 3 & -5 & 4 & -1 & -1 \\ -2 & 1 & 0 & 2 & -4 & 4 & -1 & -1 \\ -1 & 1 & 0 & 1 & -3 & 3 & 0 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 1 & 0 & 1 & -2 & 2 & -1 & 0 \\ -1 & 1 & 0 & 2 & -4 & 3 & -1 & 0 \\ -2 & 2 & 1 & 2 & -5 & 4 & -2 & 0 \\ -2 & 2 & 1 & 1 & -4 & 4 & -2 & 0 \\ -1 & 2 & 1 & 0 & -3 & 3 & -1 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 2 & -1 & 1 & -2 & 2 & -1 & 0 \\ -2 & 2 & 0 & 1 & -3 & 3 & -1 & 0 \\ -3 & 3 & -1 & 2 & -4 & 4 & -2 & 1 \\ -2 & 2 & -1 & 2 & -3 & 3 & -2 & 1 \\ -1 & 1 & -1 & 2 & -3 & 3 & -2 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 2 & -1 & 1 & -2 & 2 & -1 & 0 \\ -2 & 2 & 0 & 1 & -3 & 3 & -1 & 0 \\ -3 & 3 & -1 & 2 & -4 & 4 & -1 & -1 \\ -2 & 2 & -1 & 2 & -3 & 3 & -1 & -1 \\ -1 & 1 & -1 & 2 & -3 & 3 & -1 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ -1 & 2 & -1 & 1 & -2 & 2 & -1 & 0 \\ -2 & 2 & 0 & 1 & -3 & 3 & -1 & 0 \\ -3 & 4 & 0 & 1 & -4 & 4 & -2 & 0 \\ -2 & 3 & 0 & 1 & -3 & 3 & -2 & 0 \\ -1 & 2 & 0 & 1 & -3 & 3 & -2 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 2 & -1 & 3 & -6 & 3 & 0 & 1 \\ 0 & 2 & -1 & 2 & -5 & 3 & 0 & 1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 0 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 2 & -1 & 3 & -6 & 3 & 1 & -1 \\ 0 & 2 & -1 & 2 & -5 & 3 & 1 & -1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 1 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -3 & 2 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & 0 & 2 & -6 & 3 & 0 & 0 \\ 0 & 3 & 0 & 1 & -5 & 3 & 0 & 0 \\ 0 & 3 & 0 & 0 & -3 & 2 & 0 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -3 & 2 & 0 & 0 \\ -1 & 3 & -1 & 1 & -3 & 2 & 0 & 0 \\ -1 & 4 & -2 & 2 & -5 & 3 & 0 & 1 \\ 0 & 3 & -2 & 2 & -4 & 2 & 0 & 1 \\ 0 & 2 & -2 & 2 & -3 & 2 & -1 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -3 & 2 & 0 & 0 \\ -1 & 3 & -1 & 1 & -3 & 2 & 0 & 0 \\ -1 & 4 & -2 & 2 & -5 & 3 & 1 & -1 \\ 0 & 3 & -2 & 2 & -4 & 2 & 1 & -1 \\ 0 & 2 & -2 & 2 & -3 & 2 & 0 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -3 & 2 & 0 & 0 \\ -1 & 3 & -1 & 1 & -3 & 2 & 0 & 0 \\ -1 & 5 & -1 & 1 & -5 & 3 & 0 & 0 \\ 0 & 4 & -1 & 1 & -4 & 2 & 0 & 0 \\ 0 & 3 & -1 & 1 & -3 & 2 & -1 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ -1 & 2 & -1 & 2 & -3 & 2 & -1 & 0 \\ -1 & 3 & -2 & 3 & -4 & 2 & -1 & 1 \\ -1 & 3 & -2 & 2 & -3 & 2 & -1 & 1 \\ -1 & 2 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ -1 & 2 & -1 & 2 & -3 & 2 & -1 & 0 \\ -1 & 3 & -2 & 3 & -4 & 2 & 0 & -1 \\ -1 & 3 & -2 & 2 & -3 & 2 & 0 & -1 \\ -1 & 2 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ -1 & 2 & -1 & 2 & -3 & 2 & -1 & 0 \\ -1 & 4 & -1 & 2 & -4 & 2 & -1 & 0 \\ -1 & 4 & -1 & 1 & -3 & 2 & -1 & 0 \\ -1 & 3 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ -1 & 0 & 2 & -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 2 & -1 & -1 & 0 & 2 & 0 \\ -2 & 0 & 3 & -1 & -1 & 0 & 3 & 0 \\ -1 & 0 & 2 & -1 & -1 & 1 & 2 & 0 \\ 0 & 0 & 1 & -1 & 0 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ -1 & 0 & 2 & -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 2 & -1 & -1 & 0 & 2 & 0 \\ -2 & 1 & 4 & -2 & -1 & 0 & 2 & 1 \\ -1 & 1 & 3 & -2 & -1 & 1 & 1 & 1 \\ 0 & 1 & 2 & -2 & 0 & 0 & 1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ -1 & 0 & 2 & -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 2 & -1 & -1 & 0 & 2 & 0 \\ -2 & 1 & 4 & -2 & -1 & 0 & 3 & -1 \\ -1 & 1 & 3 & -2 & -1 & 1 & 2 & -1 \\ 0 & 1 & 2 & -2 & 0 & 0 & 2 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 1 & -1 & 0 & 1 & 0 & 0 \\ -1 & 1 & 2 & -2 & 0 & 1 & 1 & 0 \\ -2 & 1 & 2 & -2 & 0 & 2 & 1 & 0 \\ -2 & 0 & 2 & -1 & 0 & 1 & 1 & 0 \\ -1 & 0 & 1 & 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 1 & -1 & 0 & 1 & 0 & 0 \\ -1 & 1 & 2 & -2 & 0 & 1 & 1 & 0 \\ -2 & 2 & 3 & -3 & 0 & 2 & 0 & 1 \\ -2 & 1 & 3 & -2 & 0 & 1 & 0 & 1 \\ -1 & 1 & 2 & -1 & -1 & 1 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 1 & -1 & 0 & 1 & 0 & 0 \\ -1 & 1 & 2 & -2 & 0 & 1 & 1 & 0 \\ -2 & 2 & 3 & -3 & 0 & 2 & 1 & -1 \\ -2 & 1 & 3 & -2 & 0 & 1 & 1 & -1 \\ -1 & 1 & 2 & -1 & -1 & 1 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 1 & -1 & 1 & -1 & 1 & 0 \\ -2 & 1 & 2 & -1 & 0 & 0 & 1 & 0 \\ -3 & 1 & 2 & -1 & 1 & -1 & 2 & 0 \\ -2 & 1 & 1 & -1 & 1 & 0 & 1 & 0 \\ -1 & 0 & 1 & -1 & 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 1 & -1 & 1 & -1 & 1 & 0 \\ -2 & 1 & 2 & -1 & 0 & 0 & 1 & 0 \\ -3 & 2 & 3 & -2 & 1 & -1 & 1 & 1 \\ -2 & 2 & 2 & -2 & 1 & 0 & 0 & 1 \\ -1 & 1 & 2 & -2 & 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 1 & -1 & 1 & -1 & 1 & 0 \\ -2 & 1 & 2 & -1 & 0 & 0 & 1 & 0 \\ -3 & 2 & 3 & -2 & 1 & -1 & 2 & -1 \\ -2 & 2 & 2 & -2 & 1 & 0 & 1 & -1 \\ -1 & 1 & 2 & -2 & 1 & 0 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ 0 & 1 & 1 & -1 & -1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -2 & 0 & 0 & 2 & 0 \\ 0 & 2 & 1 & -2 & -1 & 1 & 3 & 0 \\ 0 & 1 & 1 & -1 & -1 & 0 & 3 & 0 \\ 0 & 1 & 0 & 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ 0 & 1 & 1 & -1 & -1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -2 & 0 & 0 & 2 & 0 \\ 0 & 3 & 2 & -3 & -1 & 1 & 2 & 1 \\ 0 & 2 & 2 & -2 & -1 & 0 & 2 & 1 \\ 0 & 2 & 1 & -1 & -1 & 0 & 1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ 0 & 1 & 1 & -1 & -1 & 1 & 1 & 0 \\ 0 & 2 & 1 & -2 & 0 & 0 & 2 & 0 \\ 0 & 3 & 2 & -3 & -1 & 1 & 3 & -1 \\ 0 & 2 & 2 & -2 & -1 & 0 & 3 & -1 \\ 0 & 2 & 1 & -1 & -1 & 0 & 2 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ 0 & 1 & 1 & -1 & 0 & -1 & 2 & 0 \\ -1 & 2 & 1 & -1 & 0 & -1 & 2 & 0 \\ -1 & 2 & 1 & -1 & 0 & -2 & 4 & 0 \\ 0 & 2 & 0 & -1 & 0 & -1 & 3 & 0 \\ 0 & 1 & 0 & -1 & 1 & -1 & 2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ 0 & 1 & 1 & -1 & 0 & -1 & 2 & 0 \\ -1 & 2 & 1 & -1 & 0 & -1 & 2 & 0 \\ -1 & 3 & 2 & -2 & 0 & -2 & 3 & 1 \\ 0 & 3 & 1 & -2 & 0 & -1 & 2 & 1 \\ 0 & 2 & 1 & -2 & 1 & -1 & 1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ 0 & 1 & 1 & -1 & 0 & -1 & 2 & 0 \\ -1 & 2 & 1 & -1 & 0 & -1 & 2 & 0 \\ -1 & 3 & 2 & -2 & 0 & -2 & 4 & -1 \\ 0 & 3 & 1 & -2 & 0 & -1 & 3 & -1 \\ 0 & 2 & 1 & -2 & 1 & -1 & 2 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ 0 & 2 & 0 & -1 & 0 & 0 & 1 & 0 \\ -1 & 2 & 1 & -2 & 1 & 0 & 1 & 0 \\ -1 & 3 & 0 & -2 & 1 & 0 & 2 & 0 \\ -1 & 2 & 0 & -1 & 1 & -1 & 2 & 0 \\ -1 & 1 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ 0 & 2 & 0 & -1 & 0 & 0 & 1 & 0 \\ -1 & 2 & 1 & -2 & 1 & 0 & 1 & 0 \\ -1 & 4 & 1 & -3 & 1 & 0 & 1 & 1 \\ -1 & 3 & 1 & -2 & 1 & -1 & 1 & 1 \\ -1 & 2 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 \\ 0 & 2 & 0 & -1 & 0 & 0 & 1 & 0 \\ -1 & 2 & 1 & -2 & 1 & 0 & 1 & 0 \\ -1 & 4 & 1 & -3 & 1 & 0 & 2 & -1 \\ -1 & 3 & 1 & -2 & 1 & -1 & 2 & -1 \\ -1 & 2 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -1 & 2 & -1 & 2 & -2 & 1 & 0 \\ -1 & -2 & 3 & -1 & 2 & -3 & 2 & 0 \\ -2 & -3 & 4 & -1 & 3 & -4 & 2 & 1 \\ -1 & -3 & 3 & -1 & 3 & -3 & 1 & 1 \\ 0 & -2 & 2 & -1 & 2 & -2 & 1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -1 & 2 & -1 & 2 & -2 & 1 & 0 \\ -1 & -2 & 3 & -1 & 2 & -3 & 2 & 0 \\ -2 & -3 & 4 & -1 & 3 & -4 & 3 & -1 \\ -1 & -3 & 3 & -1 & 3 & -3 & 2 & -1 \\ 0 & -2 & 2 & -1 & 2 & -2 & 2 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -1 & 2 & -1 & 2 & -2 & 1 & 0 \\ -1 & -2 & 3 & -1 & 2 & -3 & 2 & 0 \\ -2 & -2 & 5 & -2 & 3 & -4 & 2 & 0 \\ -1 & -2 & 4 & -2 & 3 & -3 & 1 & 0 \\ 0 & -1 & 3 & -2 & 2 & -2 & 1 & 0 \\ 0 & 0 & 2 & -2 & 2 & -2 & 1 & 0 \\ 0 & 0 & 1 & -1 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 2 & -1 & 1 & -2 & 2 & 0 \\ 0 & -1 & 2 & -1 & 2 & -4 & 3 & 0 \\ 0 & -2 & 3 & -1 & 2 & -5 & 4 & 1 \\ 1 & -2 & 2 & -1 & 2 & -4 & 3 & 1 \\ 1 & -1 & 1 & -1 & 2 & -3 & 2 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 2 & -1 & 1 & -2 & 2 & 0 \\ 0 & -1 & 2 & -1 & 2 & -4 & 3 & 0 \\ 0 & -2 & 3 & -1 & 2 & -5 & 5 & -1 \\ 1 & -2 & 2 & -1 & 2 & -4 & 4 & -1 \\ 1 & -1 & 1 & -1 & 2 & -3 & 3 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & -1 & 2 & -1 & 1 & -2 & 2 & 0 \\ 0 & -1 & 2 & -1 & 2 & -4 & 3 & 0 \\ 0 & -1 & 4 & -2 & 2 & -5 & 4 & 0 \\ 1 & -1 & 3 & -2 & 2 & -4 & 3 & 0 \\ 1 & 0 & 2 & -2 & 2 & -3 & 2 & 0 \\ 0 & 0 & 2 & -2 & 2 & -2 & 1 & 0 \\ 0 & 0 & 1 & -1 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & 0 & 1 & -1 & 2 & -3 & 2 & 0 \\ -1 & -1 & 2 & -1 & 3 & -4 & 2 & 0 \\ -1 & -1 & 2 & -1 & 4 & -6 & 3 & 1 \\ 0 & -1 & 1 & -1 & 4 & -5 & 2 & 1 \\ 0 & -1 & 1 & -1 & 3 & -3 & 1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & 0 & 1 & -1 & 2 & -3 & 2 & 0 \\ -1 & -1 & 2 & -1 & 3 & -4 & 2 & 0 \\ -1 & -1 & 2 & -1 & 4 & -6 & 4 & -1 \\ 0 & -1 & 1 & -1 & 4 & -5 & 3 & -1 \\ 0 & -1 & 1 & -1 & 3 & -3 & 2 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 2 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ 0 & 0 & 1 & -1 & 2 & -3 & 2 & 0 \\ -1 & -1 & 2 & -1 & 3 & -4 & 2 & 0 \\ -1 & 0 & 3 & -2 & 4 & -6 & 3 & 0 \\ 0 & 0 & 2 & -2 & 4 & -5 & 2 & 0 \\ 0 & 0 & 2 & -2 & 3 & -3 & 1 & 0 \\ 0 & 0 & 2 & -2 & 2 & -2 & 1 & 0 \\ 0 & 0 & 1 & -1 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 1 & -1 & 0 \\ -1 & 0 & -1 & 2 & -2 & 2 & -2 & 0 \\ -1 & 0 & -1 & 3 & -4 & 3 & -2 & 0 \\ -2 & -1 & -2 & 5 & -5 & 4 & -3 & 0 \\ -1 & -1 & -2 & 4 & -4 & 4 & -3 & 0 \\ 0 & -1 & -2 & 3 & -3 & 3 & -2 & 0 \\ 0 & 0 & -2 & 2 & -2 & 2 & -1 & 0 \\ 0 & 0 & -1 & 1 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 1 & -1 & 0 \\ -1 & 0 & -1 & 2 & -2 & 2 & -2 & 0 \\ -1 & 0 & -1 & 3 & -4 & 3 & -2 & 0 \\ -2 & 0 & -1 & 4 & -5 & 4 & -4 & 1 \\ -1 & 0 & -1 & 3 & -4 & 4 & -4 & 1 \\ 0 & 0 & -1 & 2 & -3 & 3 & -3 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 2 & -2 & 1 & -1 & 0 \\ -1 & 0 & -1 & 2 & -2 & 2 & -2 & 0 \\ -1 & 0 & -1 & 3 & -4 & 3 & -2 & 0 \\ -2 & 0 & -1 & 4 & -5 & 4 & -3 & -1 \\ -1 & 0 & -1 & 3 & -4 & 4 & -3 & -1 \\ 0 & 0 & -1 & 2 & -3 & 3 & -2 & -1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0&0&-1&2&-2&1&-1&0\\ 0&0&-1&2&-3&2&-1&0\\ 0&1&-2&3&-4&2&-1&0\\ 0&0&-3&5&-6&3&-1&0\\ 1&0&-3&4&-5&3&-1&0\\ 1&0&-3&3&-3&2&-1&0\\ 0&0&-2&2&-2&2&-1&0\\ 0&0&-1&1&-1&1&-1&1 \end{pmatrix}, \begin{pmatrix} 0&0&-1&2&-2&1&-1&0\\ 0&0&-1&2&-3&2&-1&0\\ 0&1&-2&3&-4&2&-1&0\\ 0&1&-2&4&-6&3&-2&1\\ 1&1&-2&3&-5&3&-2&1\\ 1&1&-2&2&-3&2&-2&1\\ 0&1&-1&1&-2&2&-2&1\\ 0&1&0&0&-1&1&-1&0 \end{pmatrix}, \begin{pmatrix} 0&0&-1&2&-2&1&-1&0\\ 0&0&-1&2&-3&2&-1&0\\ 0&1&-2&3&-4&2&-1&0\\ 0&1&-2&4&-6&3&-1&-1\\ 1&1&-2&3&-5&3&-1&-1\\ 1&1&-2&2&-3&2&-1&-1\\ 0&1&-1&1&-2&2&-1&-1\\ 0&0&-1&1&-1&1&0&-1 \end{pmatrix},$$

$$\begin{pmatrix} 0&0&-1&2&-2&1&-1&0\\ 0&1&-2&2&-2&1&-1&0\\ -1&1&-2&3&-3&2&-2&0\\ -1&1&-4&5&-4&2&-2&0\\ 0&1&-4&4&-3&2&-2&0\\ 0&0&-3&3&-2&2&-2&0\\ 0&0&-2&2&-2&2&-1&0\\ 0&0&-1&1&-1&1&-1&1 \end{pmatrix}, \begin{pmatrix} 0&0&-1&2&-2&1&-1&0\\ 0&1&-2&2&-2&1&-1&0\\ -1&1&-2&3&-3&2&-2&0\\ -1&2&-3&4&-4&2&-3&1\\ 0&2&-3&3&-3&2&-3&1\\ 0&1&-2&2&-2&2&-3&1\\ 0&1&-1&1&-2&2&-2&1\\ 0&1&0&0&-1&1&-1&0 \end{pmatrix}, \begin{pmatrix} 0&0&-1&2&-2&1&-1&0\\ 0&1&-2&2&-2&1&-1&0\\ -1&1&-2&3&-3&2&-2&0\\ -1&2&-3&4&-4&2&-2&-1\\ 0&2&-3&3&-3&2&-2&-1\\ 0&1&-2&2&-2&2&-2&-1\\ 0&1&-1&1&-2&2&-1&-1\\ 0&0&-1&1&-1&1&0&-1 \end{pmatrix},$$

$$\begin{pmatrix} 1&-1&-1&1&0&0&-1&0\\ 0&-2&0&1&0&0&-1&0\\ 1&-2&-1&2&-1&0&-1&0\\ 1&-4&-1&3&-1&0&-2&1\\ 1&-3&-1&2&-1&1&-2&1\\ 1&-2&-1&1&0&0&-1&1\\ 0&-1&-1&1&0&0&-1&1\\ 0&0&0&0&0&0&-1&1 \end{pmatrix}, \begin{pmatrix} 1&-1&-1&1&0&0&-1&0\\ 0&-2&0&1&0&0&-1&0\\ 1&-2&-1&2&-1&0&-1&0\\ 1&-4&-1&3&-1&0&-1&-1\\ 1&-3&-1&2&-1&1&-1&-1\\ 1&-2&-1&1&0&0&0&-1\\ 0&-1&-1&1&0&0&0&-1\\ 0&-1&-1&1&0&0&0&0 \end{pmatrix}, \begin{pmatrix} 1&-1&-1&1&0&0&-1&0\\ 0&-2&0&1&0&0&-1&0\\ 1&-2&-1&2&-1&0&-1&0\\ 1&-3&0&2&-1&0&-2&0\\ 1&-2&0&1&-1&1&-2&0\\ 1&-1&0&0&0&0&-1&0\\ 0&0&0&0&0&0&-1&0\\ 0&0&0&0&0&0&0&-1 \end{pmatrix},$$

$$\begin{pmatrix} 1&-1&-1&1&0&0&-1&0\\ 0&-1&-1&1&1&-1&-1&0\\ 0&-2&-1&2&0&0&-2&0\\ 0&-3&-2&3&1&-1&-3&1\\ 0&-2&-2&2&1&0&-3&1\\ 0&-2&-1&1&1&0&-2&1\\ 0&-1&-1&1&0&0&-1&1\\ 0&0&0&0&0&0&-1&1 \end{pmatrix}, \begin{pmatrix} 1&-1&-1&1&0&0&-1&0\\ 0&-1&-1&1&1&-1&-1&0\\ 0&-2&-1&2&0&0&-2&0\\ 0&-3&-2&3&1&-1&-2&-1\\ 0&-2&-2&2&1&0&-2&-1\\ 0&-2&-1&1&1&0&-1&-1\\ 0&-1&-1&1&0&0&0&-1\\ 0&-1&-1&1&0&0&0&0 \end{pmatrix}, \begin{pmatrix} 1&-1&-1&1&0&0&-1&0\\ 0&-1&-1&1&1&-1&-1&0\\ 0&-2&-1&2&0&0&-2&0\\ 0&-2&-1&2&1&-1&-3&0\\ 0&-1&-1&1&1&0&-3&0\\ 0&-1&0&0&1&0&-2&0\\ 0&0&0&0&0&0&-1&0\\ 0&0&0&0&0&0&0&-1 \end{pmatrix},$$

$$\begin{pmatrix} 1&-1&-1&1&0&0&-1&0\\ 1&-1&-1&1&0&-1&0&0\\ 1&-1&-2&2&0&-1&-1&0\\ 2&-2&-3&3&0&-2&-1&1\\ 2&-1&-3&2&0&-1&-1&1\\ 1&-1&-2&1&1&-1&-1&1\\ 0&-1&-1&1&0&0&-1&1\\ 0&0&0&0&0&0&-1&1 \end{pmatrix}, \begin{pmatrix} 1&-1&-1&1&0&0&-1&0\\ 1&-1&-1&1&0&-1&0&0\\ 1&-1&-2&2&0&-1&-1&0\\ 2&-2&-3&3&0&-2&0&-1\\ 2&-1&-3&2&0&-1&0&-1\\ 1&-1&-2&1&1&-1&0&-1\\ 0&-1&-1&1&0&0&0&-1\\ 0&-1&-1&1&0&0&0&0 \end{pmatrix}, \begin{pmatrix} 1&-1&-1&1&0&0&-1&0\\ 1&-1&-1&1&0&-1&0&0\\ 1&-1&-2&2&0&-1&-1&0\\ 2&-1&-2&2&0&-2&-1&0\\ 2&0&-2&1&0&-1&-1&0\\ 1&0&-1&0&1&-1&-1&0\\ 0&0&0&0&0&0&-1&0\\ 0&0&0&0&0&0&0&-1 \end{pmatrix},$$

$$\begin{pmatrix} 1&0&0&0&0&0&0&0\\ 0&0&1&0&-1&1&0&0\\ 1&0&1&0&-1&0&1&0\\ 1&-1&1&1&-2&1&1&0\\ 1&-1&1&0&-1&1&1&0\\ 1&0&0&0&-1&1&1&0\\ 0&0&0&0&0&0&1&0\\ 0&0&0&0&0&0&0&1 \end{pmatrix}, \begin{pmatrix} 1&0&0&0&0&0&0&0\\ 0&0&1&0&-1&1&0&0\\ 1&0&1&0&-1&0&1&0\\ 1&0&2&0&-2&1&0&1\\ 1&0&2&-1&-1&1&0&1\\ 1&1&1&-1&-1&1&0&1\\ 0&1&1&-1&0&0&0&1\\ 0&1&1&-1&0&0&0&0 \end{pmatrix}, \begin{pmatrix} 1&0&0&0&0&0&0&0\\ 0&0&1&0&-1&1&0&0\\ 1&0&1&0&-1&0&1&0\\ 1&0&2&0&-2&1&1&-1\\ 1&0&2&-1&-1&1&1&-1\\ 1&1&1&-1&-1&1&1&-1\\ 0&1&1&-1&0&0&1&-1\\ 0&0&0&0&0&0&1&-1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 1 & 0 & 1 & -2 & 1 & 0 \\ -1 & -2 & 1 & 0 & 2 & -2 & 0 & 0 \\ -1 & -3 & 2 & 0 & 2 & -3 & 1 & 0 \\ -2 & -5 & 2 & 1 & 3 & -4 & 1 & 0 \\ -2 & -4 & 2 & 0 & 3 & -3 & 1 & 0 \\ -1 & -3 & 1 & 0 & 2 & -2 & 1 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 1 & -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 1 & 0 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 2 & 1 & -1 & 1 & -1 & -1 & 2 & 0 \\ 2 & 1 & -1 & 0 & 0 & -1 & 2 & 0 \\ 1 & 1 & -1 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 2 & 2 & 0 & 0 & -1 & -1 & 1 & 1 \\ 2 & 2 & 0 & -1 & 0 & -1 & 1 & 1 \\ 1 & 2 & 0 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & -1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 2 & 2 & 0 & 0 & -1 & -1 & 2 & -1 \\ 2 & 2 & 0 & -1 & 0 & -1 & 2 & -1 \\ 1 & 2 & 0 & -1 & 0 & 0 & 1 & -1 \\ 0 & 1 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}.$$

The character table of G^{s112}:

										10										20				
$\chi_{112}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(2)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1
$\chi_{112}^{(3)}$	1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{112}^{(4)}$	1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{112}^{(5)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{112}^{(6)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(7)}$	1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{112}^{(8)}$	1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{112}^{(9)}$	1	A	A	/A	/A	/A	1	1	1	1	1	1	/A	/A	/A	A	A	A	-A	-A	-A	-/A	-/A	
$\chi_{112}^{(10)}$	1	/A	/A	A	A	A	1	1	1	1	1	1	A	A	A	/A	/A	/A	-/A	-/A	-/A	-A	-A	
$\chi_{112}^{(11)}$	1	-/A	-/A	A	A	A	1	1	1	-1	-1	-1	-A	-A	-A	/A	/A	/A	/A	/A	/A	-A	-A	
$\chi_{112}^{(12)}$	1	-A	-A	/A	/A	/A	1	1	1	-1	-1	-1	-/A	-/A	-/A	A	A	A	A	A	A	-/A	-/A	
$\chi_{112}^{(13)}$	1	-A	-A	/A	/A	/A	1	1	1	-1	-1	-1	-/A	-/A	-/A	A	A	A	A	A	A	-/A	-/A	
$\chi_{112}^{(14)}$	1	-/A	-/A	A	A	A	1	1	1	-1	-1	-1	-A	-A	-A	/A	/A	/A	/A	/A	/A	-A	-A	
$\chi_{112}^{(15)}$	1	/A	/A	A	A	A	1	1	1	1	1	1	A	A	A	/A	/A	/A	-/A	-/A	-/A	-A	-A	
$\chi_{112}^{(16)}$	1	A	A	/A	/A	/A	1	1	1	1	1	1	/A	/A	/A	A	A	A	-A	-A	-A	-/A	-/A	
$\chi_{112}^{(17)}$	1	/A	1	/A	1	A	1	A	/A	1	A	/A	/A	1	A	A	/A	1	-1	-/A	-A	-A	-1	
$\chi_{112}^{(18)}$	1	A	1	A	1	/A	1	/A	A	1	/A	A	A	1	/A	/A	A	1	-1	-A	-/A	-/A	-1	
$\chi_{112}^{(19)}$	1	1	A	A	/A	1	1	A	/A	1	A	/A	A	/A	1	/A	1	A	-A	-1	-/A	-1	-/A	
$\chi_{112}^{(20)}$	1	1	/A	/A	A	1	1	/A	A	1	/A	A	/A	A	1	A	1	/A	-/A	-1	-A	-1	-A	
$\chi_{112}^{(21)}$	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A	-/A	-A	-1	-/A	-A	
$\chi_{112}^{(22)}$	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A	-A	-/A	-1	-A	-/A	
$\chi_{112}^{(23)}$	1	-/A	-1	/A	1	A	1	A	/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	/A	A	-A	-1	
$\chi_{112}^{(24)}$	1	-A	-1	A	1	/A	1	/A	A	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	A	/A	-/A	-1	
$\chi_{112}^{(25)}$	1	-A	-/A	1	A	/A	1	A	/A	-1	-A	-/A	-1	-A	-/A	1	A	/A	/A	A	1	-/A	-A	
$\chi_{112}^{(26)}$	1	-/A	-A	1	/A	A	1	/A	A	-1	-/A	-A	-1	-/A	-A	1	/A	A	A	/A	1	-A	-/A	
$\chi_{112}^{(27)}$	1	-1	-A	A	/A	1	1	A	/A	-1	-A	-/A	-A	-/A	-1	/A	1	A	A	1	/A	-1	-/A	
$\chi_{112}^{(28)}$	1	-1	-/A	/A	A	1	1	/A	A	-1	-/A	-A	-/A	-A	-1	A	1	/A	/A	1	A	-1	-A	
$\chi_{112}^{(29)}$	1	-/A	-1	/A	1	A	1	A	/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	/A	A	-A	-1	
$\chi_{112}^{(30)}$	1	-A	-1	A	1	/A	1	/A	A	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	A	/A	-/A	-1	
$\chi_{112}^{(31)}$	1	-1	-A	A	/A	1	1	A	/A	-1	-A	-/A	-A	-/A	-1	/A	1	A	A	1	/A	-1	-/A	
$\chi_{112}^{(32)}$	1	-1	-/A	/A	A	1	1	/A	A	-1	-/A	-A	-/A	-A	-1	A	1	/A	/A	1	A	-1	-A	
$\chi_{112}^{(33)}$	1	-A	-/A	1	A	/A	1	A	/A	-1	-A	-/A	-1	-A	-/A	1	A	/A	/A	A	1	-/A	-A	
$\chi_{112}^{(34)}$	1	-/A	-A	1	/A	A	1	/A	A	-1	-/A	-A	-1	-/A	-A	1	/A	A	A	/A	1	-A	-/A	
$\chi_{112}^{(35)}$	1	/A	1	/A	1	A	1	A	/A	1	A	/A	/A	1	A	A	/A	1	-1	-/A	-A	-A	-1	
$\chi_{112}^{(36)}$	1	A	1	A	1	/A	1	/A	A	1	/A	A	A	1	/A	/A	A	1	-1	-A	-/A	-/A	-1	
$\chi_{112}^{(37)}$	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A	-/A	-A	-1	-/A	-A	
$\chi_{112}^{(38)}$	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A	-A	-/A	-1	-A	-/A	
$\chi_{112}^{(39)}$	1	1	A	A	/A	1	1	A	/A	1	A	/A	A	/A	1	/A	1	A	-A	-1	-/A	-1	-/A	
$\chi_{112}^{(40)}$	1	1	/A	/A	A	1	1	/A	A	1	/A	A	/A	A	1	A	1	/A	-/A	-1	-A	-1	-A	
$\chi_{112}^{(41)}$	1	A	A	/A	/A	/A	1	1	1	1	1	1	/A	/A	/A	A	A	A	A	A	A	/A	/A	
$\chi_{112}^{(42)}$	1	/A	/A	A	A	A	1	1	1	1	1	1	A	A	A	/A	/A	/A	/A	/A	/A	A	A	
$\chi_{112}^{(43)}$	1	-/A	-/A	A	A	A	1	1	1	-1	-1	-1	-A	-A	-A	/A	/A	/A	-/A	-/A	-/A	A	A	
$\chi_{112}^{(44)}$	1	-A	-A	/A	/A	/A	1	1	1	-1	-1	-1	-/A	-/A	-/A	A	A	A	-A	-A	-A	/A	/A	
$\chi_{112}^{(45)}$	1	-A	-A	/A	/A	/A	1	1	1	-1	-1	-1	-/A	-/A	-/A	A	A	A	-A	-A	-A	/A	/A	

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$\chi_{112}^{(46)}$	1	-/A	-/A	A	A	A	1	1	1	-1	-1	-1	-A	-A	-A	/A	/A	/A	-/A	-/A	-/A	A	A
$\chi_{112}^{(47)}$	1	/A	/A	A	A	A	1	1	1	1	1	1	A	A	A	/A	/A	/A	/A	/A	/A	A	A
$\chi_{112}^{(48)}$	1	A	A	/A	/A	/A	1	1	1	1	1	1	/A	/A	/A	A	A	A	A	A	A	/A	/A
$\chi_{112}^{(49)}$	1	/A	1	/A	1	A	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	/A	A	A	1
$\chi_{112}^{(50)}$	1	A	1	A	1	/A	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	A	/A	/A	1
$\chi_{112}^{(51)}$	1	1	A	A	/A	1	1	A	/A	1	A	/A	A	/A	1	/A	1	A	A	1	/A	1	/A
$\chi_{112}^{(52)}$	1	1	/A	/A	A	1	1	/A	A	1	/A	A	/A	A	1	A	1	/A	/A	1	A	1	A
$\chi_{112}^{(53)}$	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A	/A	A	1	/A	A
$\chi_{112}^{(54)}$	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A	A	/A	1	A	/A
$\chi_{112}^{(55)}$	1	-/A	-1	/A	1	A	1	A	/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	-1	-/A	-A	A	1
$\chi_{112}^{(56)}$	1	-A	-1	A	1	/A	1	/A	A	-1	-/A	-A	-A	-1	-/A	/A	A	1	-1	-A	-/A	/A	1
$\chi_{112}^{(57)}$	1	-A	-/A	1	A	/A	1	A	/A	-1	-A	-/A	-1	-A	-/A	1	A	/A	-/A	-A	-1	/A	A
$\chi_{112}^{(58)}$	1	-/A	-A	1	/A	A	1	/A	A	-1	-/A	-A	-1	-/A	-A	1	/A	A	-A	-/A	-1	A	/A
$\chi_{112}^{(59)}$	1	-1	-A	A	/A	1	1	A	/A	-1	-A	-/A	-A	-/A	-1	/A	1	A	-A	-1	-/A	1	/A
$\chi_{112}^{(60)}$	1	-1	-/A	/A	A	1	1	/A	A	-1	-/A	-A	-/A	-A	-1	A	1	/A	-/A	-1	-A	1	A
$\chi_{112}^{(61)}$	1	-/A	-1	/A	1	A	1	A	/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	-1	-/A	-A	A	1
$\chi_{112}^{(62)}$	1	-A	-1	A	1	/A	1	/A	A	-1	-/A	-A	-A	-1	-/A	/A	A	1	-1	-A	-/A	/A	1
$\chi_{112}^{(63)}$	1	-1	-A	A	/A	1	1	A	/A	-1	-A	-/A	-A	-/A	-1	/A	1	A	-A	-1	-/A	1	/A
$\chi_{112}^{(64)}$	1	-1	-/A	/A	A	1	1	/A	A	-1	-/A	-A	-/A	-A	-1	A	1	/A	-/A	-1	-A	1	A
$\chi_{112}^{(65)}$	1	-A	-/A	1	A	/A	1	A	/A	-1	-A	-/A	-1	-A	-/A	1	A	/A	-/A	-A	-1	/A	A
$\chi_{112}^{(66)}$	1	-/A	-A	1	/A	A	1	/A	A	-1	-/A	-A	-1	-/A	-A	1	/A	A	-A	-/A	-1	A	/A
$\chi_{112}^{(67)}$	1	/A	1	/A	1	A	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	/A	A	A	1
$\chi_{112}^{(68)}$	1	A	1	A	1	/A	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	A	/A	/A	1
$\chi_{112}^{(69)}$	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A	/A	A	1	/A	A
$\chi_{112}^{(70)}$	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A	A	/A	1	A	/A
$\chi_{112}^{(71)}$	1	1	A	A	/A	1	1	A	/A	1	A	/A	A	/A	1	/A	1	A	A	1	/A	1	/A
$\chi_{112}^{(72)}$	1	1	/A	/A	A	1	1	/A	A	1	/A	A	/A	A	1	A	1	/A	/A	1	A	1	A
$\chi_{112}^{(73)}$	2	.	.	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	-1	-1	-1	-2	-2	-2	.	.
$\chi_{112}^{(74)}$	2	.	.	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	-1	-1	-1	-2	-2	-2	.	.
$\chi_{112}^{(75)}$	2	.	.	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	-1	-1	-1	2	2	2	.	.
$\chi_{112}^{(76)}$	2	.	.	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	-1	-1	-1	2	2	2	.	.
$\chi_{112}^{(77)}$	2	.	.	-A	-1	-/A	-1	-/A	-A	.	.	.	.	.	.	-/A	-A	-1	-2	/B	B	.	.
$\chi_{112}^{(78)}$	2	.	.	-/A	-1	-A	-1	-A	-/A	.	.	.	.	.	.	-A	-/A	-1	-2	B	/B	.	.
$\chi_{112}^{(79)}$	2	.	.	-A	-A	-A	-1	-1	-1	.	.	.	.	.	.	-/A	-/A	-/A	B	B	B	.	.
$\chi_{112}^{(80)}$	2	.	.	-/A	-/A	-/A	-1	-1	-1	.	.	.	.	.	.	-A	-A	-A	/B	/B	/B	.	.
$\chi_{112}^{(81)}$	2	.	.	-/A	-A	-1	-1	-/A	-A	.	.	.	.	.	.	-A	-1	-/A	B	-2	/B	.	.
$\chi_{112}^{(82)}$	2	.	.	-A	-/A	-1	-1	-A	-/A	.	.	.	.	.	.	-/A	-1	-A	/B	-2	B	.	.
$\chi_{112}^{(83)}$	2	.	.	-1	-A	-/A	-1	-A	-/A	.	.	.	.	.	.	-1	-A	-/A	B	/B	-2	.	.
$\chi_{112}^{(84)}$	2	.	.	-1	-/A	-A	-1	-/A	-A	.	.	.	.	.	.	-1	-/A	-A	/B	B	-2	.	.
$\chi_{112}^{(85)}$	2	.	.	-A	-1	-/A	-1	-/A	-A	.	.	.	.	.	.	-/A	-A	-1	-2	/B	B	.	.
$\chi_{112}^{(86)}$	2	.	.	-/A	-1	-A	-1	-A	-/A	.	.	.	.	.	.	-A	-/A	-1	-2	B	/B	.	.
$\chi_{112}^{(87)}$	2	.	.	-A	-A	-A	-1	-1	-1	.	.	.	.	.	.	-/A	-/A	-/A	B	B	B	.	.
$\chi_{112}^{(88)}$	2	.	.	-/A	-/A	-/A	-1	-1	-1	.	.	.	.	.	.	-A	-A	-A	/B	/B	/B	.	.
$\chi_{112}^{(89)}$	2	.	.	-/A	-A	-1	-1	-/A	-A	.	.	.	.	.	.	-A	-1	-/A	B	-2	/B	.	.
$\chi_{112}^{(90)}$	2	.	.	-A	-/A	-1	-1	-A	-/A	.	.	.	.	.	.	-/A	-1	-A	/B	-2	B	.	.

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$\chi_{112}^{(91)}$	2	.	.	-1	-A	-/A	-1	-A	-/A	.	.	.	.	.	.	-1	-A	-/A	B	/B	-2	.	.
$\chi_{112}^{(92)}$	2	.	.	-1	-/A	-A	-1	-/A	-A	.	.	.	.	.	.	-1	-/A	-A	/B	B	-2	.	.
$\chi_{112}^{(93)}$	2	.	.	-A	-1	-/A	-1	-/A	-A	.	.	.	.	.	.	-/A	-A	-1	2	-/B	-B	.	.
$\chi_{112}^{(94)}$	2	.	.	-/A	-1	-A	-1	-A	-/A	.	.	.	.	.	.	-A	-/A	-1	2	-B	-/B	.	.
$\chi_{112}^{(95)}$	2	.	.	-A	-A	-A	-1	-1	-1	.	.	.	.	.	.	-/A	-/A	-/A	-B	-B	-B	.	.
$\chi_{112}^{(96)}$	2	.	.	-/A	-/A	-/A	-1	-1	-1	.	.	.	.	.	.	-A	-A	-A	-/B	-/B	-/B	.	.
$\chi_{112}^{(97)}$	2	.	.	-/A	-A	-1	-1	-/A	-A	.	.	.	.	.	.	-A	-1	-/A	-B	2	-/B	.	.
$\chi_{112}^{(98)}$	2	.	.	-A	-/A	-1	-1	-A	-/A	.	.	.	.	.	.	-/A	-1	-A	-/B	2	-B	.	.
$\chi_{112}^{(99)}$	2	.	.	-1	-A	-/A	-1	-A	-/A	.	.	.	.	.	.	-1	-A	-/A	-B	-/B	2	.	.
$\chi_{112}^{(100)}$	2	.	.	-1	-/A	-A	-1	-/A	-A	.	.	.	.	.	.	-1	-/A	-A	-/B	-B	2	.	.
$\chi_{112}^{(101)}$	2	.	.	-A	-1	-/A	-1	-/A	-A	.	.	.	.	.	.	-/A	-A	-1	2	-/B	-B	.	.
$\chi_{112}^{(102)}$	2	.	.	-/A	-1	-A	-1	-A	-/A	.	.	.	.	.	.	-A	-/A	-1	2	-B	-/B	.	.
$\chi_{112}^{(103)}$	2	.	.	-A	-A	-A	-1	-1	-1	.	.	.	.	.	.	-/A	-/A	-/A	-B	-B	-B	.	.
$\chi_{112}^{(104)}$	2	.	.	-/A	-/A	-/A	-1	-1	-1	.	.	.	.	.	.	-A	-A	-A	-/B	-/B	-/B	.	.
$\chi_{112}^{(105)}$	2	.	.	-/A	-A	-1	-1	-/A	-A	.	.	.	.	.	.	-A	-1	-/A	-B	2	-/B	.	.
$\chi_{112}^{(106)}$	2	.	.	-A	-/A	-1	-1	-A	-/A	.	.	.	.	.	.	-/A	-1	-A	-/B	2	-B	.	.
$\chi_{112}^{(107)}$	2	.	.	-1	-A	-/A	-1	-A	-/A	.	.	.	.	.	.	-1	-A	-/A	-B	-/B	2	.	.
$\chi_{112}^{(108)}$	2	.	.	-1	-/A	-A	-1	-/A	-A	.	.	.	.	.	.	-1	-/A	-A	-/B	-B	2	.	.

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$\chi_{112}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(2)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(3)}$	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{112}^{(4)}$	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{112}^{(5)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{112}^{(6)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{112}^{(7)}$	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{112}^{(8)}$	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{112}^{(9)}$	-/A	-1	-1	-1	-1	-1	-1	-/A	-/A	-/A	-A	-A	-A	/A	/A	/A	A	A	A	1	1	1	1	1	1
$\chi_{112}^{(10)}$	-A	-1	-1	-1	-1	-1	-1	-A	-A	-A	-/A	-/A	-/A	A	A	A	/A	/A	/A	1	1	1	1	1	1
$\chi_{112}^{(11)}$	-A	-1	-1	-1	1	1	1	A	A	A	-/A	-/A	-/A	-A	-A	-A	/A	/A	/A	-1	-1	-1	1	1	1
$\chi_{112}^{(12)}$	-/A	-1	-1	-1	1	1	1	/A	/A	/A	-A	-A	-A	-/A	-/A	-/A	A	A	A	-1	-1	-1	1	1	1
$\chi_{112}^{(13)}$	-/A	-1	-1	-1	1	1	1	/A	/A	/A	-A	-A	-A	/A	/A	/A	-A	-A	-A	1	1	1	-1	-1	-1
$\chi_{112}^{(14)}$	-A	-1	-1	-1	1	1	1	A	A	A	-/A	-/A	-/A	A	A	A	-/A	-/A	-/A	1	1	1	-1	-1	-1
$\chi_{112}^{(15)}$	-A	-1	-1	-1	-1	-1	-1	-A	-A	-A	-/A	-/A	-/A	-A	-A	-A	-/A	-/A	-/A	-1	-1	-1	-1	-1	-1
$\chi_{112}^{(16)}$	-/A	-1	-1	-1	-1	-1	-1	-/A	-/A	-/A	-A	-A	-A	-/A	-/A	-/A	-A	-A	-A	-1	-1	-1	-1	-1	-1
$\chi_{112}^{(17)}$	-/A	-/A	-A	-1	-/A	-A	-1	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	/A	A	1	/A	1	/A
$\chi_{112}^{(18)}$	-A	-A	-/A	-1	-A	-/A	-1	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	A	/A	1	A	1	A
$\chi_{112}^{(19)}$	-A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	/A	A	1	/A	1	/A
$\chi_{112}^{(20)}$	-/A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	A	/A	1	A	1	A
$\chi_{112}^{(21)}$	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	/A	A	1	/A	A	1	/A	A	1	/A	1	/A
$\chi_{112}^{(22)}$	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	A	/A	1	A	/A	1	A	/A	1	A	1	A
$\chi_{112}^{(23)}$	-/A	-/A	-A	-1	/A	A	1	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	-/A	-A	-1	/A	1	/A
$\chi_{112}^{(24)}$	-A	-A	-/A	-1	A	/A	1	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	-A	-/A	-1	A	1	A
$\chi_{112}^{(25)}$	-1	-/A	-A	-1	/A	A	1	/A	A	1	-/A	-A	-1	-/A	-A	-1	/A	A	1	-/A	-A	-1	/A	1	/A

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$\chi_{112}^{(26)}$	-1	-A	-/A	-1	A	/A	1	A	/A	1	-A	-/A	-1	-A	-/A	-1	A	/A	1	-A	-/A	-1	A
$\chi_{112}^{(27)}$	-A	-/A	-A	-1	/A	A	1	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-/A	-A	-1	/A
$\chi_{112}^{(28)}$	-/A	-A	-/A	-1	A	/A	1	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-A	-/A	-1	A
$\chi_{112}^{(29)}$	-/A	-/A	-A	-1	/A	A	1	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	/A	A	1	-/A
$\chi_{112}^{(30)}$	-A	-A	-/A	-1	A	/A	1	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	A	/A	1	-A
$\chi_{112}^{(31)}$	-A	-/A	-A	-1	/A	A	1	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	/A	A	1	-/A
$\chi_{112}^{(32)}$	-/A	-A	-/A	-1	A	/A	1	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	A	/A	1	-A
$\chi_{112}^{(33)}$	-1	-/A	-A	-1	/A	A	1	/A	A	1	-/A	-A	-1	/A	A	1	-/A	-A	-1	/A	A	1	-/A
$\chi_{112}^{(34)}$	-1	-A	-/A	-1	A	/A	1	A	/A	1	-A	-/A	-1	A	/A	1	-A	-/A	-1	A	/A	1	-A
$\chi_{112}^{(35)}$	-/A	-/A	-A	-1	-/A	-A	-1	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-/A	-A	-1	-/A
$\chi_{112}^{(36)}$	-A	-A	-/A	-1	-A	-/A	-1	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-A	-/A	-1	-A
$\chi_{112}^{(37)}$	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A
$\chi_{112}^{(38)}$	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A
$\chi_{112}^{(39)}$	-A	-/A	-A	-1	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-/A
$\chi_{112}^{(40)}$	-/A	-A	-/A	-1	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-A
$\chi_{112}^{(41)}$	/A	1	1	1	1	1	1	/A	/A	/A	A	A	A	-/A	-/A	-/A	-A	-A	-A	-1	-1	-1	-1
$\chi_{112}^{(42)}$	A	1	1	1	1	1	1	A	A	A	/A	/A	/A	-A	-A	-A	-/A	-/A	-/A	-1	-1	-1	-1
$\chi_{112}^{(43)}$	A	1	1	1	-1	-1	-1	-A	-A	-A	/A	/A	/A	A	A	A	-/A	-/A	-/A	1	1	1	-1
$\chi_{112}^{(44)}$	/A	1	1	1	-1	-1	-1	-/A	-/A	-/A	A	A	A	/A	/A	/A	-A	-A	-A	1	1	1	-1
$\chi_{112}^{(45)}$	/A	1	1	1	-1	-1	-1	-/A	-/A	-/A	A	A	A	-/A	-/A	-/A	A	A	A	-1	-1	-1	1
$\chi_{112}^{(46)}$	A	1	1	1	-1	-1	-1	-A	-A	-A	/A	/A	/A	-A	-A	-A	/A	/A	/A	-1	-1	-1	1
$\chi_{112}^{(47)}$	A	1	1	1	1	1	1	A	A	A	/A	/A	/A	A	A	A	/A	/A	/A	1	1	1	1
$\chi_{112}^{(48)}$	/A	1	1	1	1	1	1	/A	/A	/A	A	A	A	/A	/A	/A	A	A	A	1	1	1	1
$\chi_{112}^{(49)}$	/A	/A	A	1	/A	A	1	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	-/A	-A	-1	-/A
$\chi_{112}^{(50)}$	A	A	/A	1	A	/A	1	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	-A	-/A	-1	-A
$\chi_{112}^{(51)}$	A	/A	A	1	/A	A	1	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-/A
$\chi_{112}^{(52)}$	/A	A	/A	1	A	/A	1	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-A
$\chi_{112}^{(53)}$	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A
$\chi_{112}^{(54)}$	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A
$\chi_{112}^{(55)}$	/A	/A	A	1	-/A	-A	-1	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	/A	A	1	-/A
$\chi_{112}^{(56)}$	A	A	/A	1	-A	-/A	-1	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	A	/A	1	-A
$\chi_{112}^{(57)}$	1	/A	A	1	-/A	-A	-1	-/A	-A	-1	/A	A	1	/A	A	1	-/A	-A	-1	/A	A	1	-/A
$\chi_{112}^{(58)}$	1	A	/A	1	-A	-/A	-1	-A	-/A	-1	A	/A	1	A	/A	1	-A	-/A	-1	A	/A	1	-A
$\chi_{112}^{(59)}$	A	/A	A	1	-/A	-A	-1	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	/A	A	1	-/A
$\chi_{112}^{(60)}$	/A	A	/A	1	-A	-/A	-1	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	A	/A	1	-A
$\chi_{112}^{(61)}$	/A	/A	A	1	-/A	-A	-1	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-/A	-A	-1	/A
$\chi_{112}^{(62)}$	A	A	/A	1	-A	-/A	-1	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-A	-/A	-1	A
$\chi_{112}^{(63)}$	A	/A	A	1	-/A	-A	-1	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-/A	-A	-1	/A
$\chi_{112}^{(64)}$	/A	A	/A	1	-A	-/A	-1	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-A	-/A	-1	A
$\chi_{112}^{(65)}$	1	/A	A	1	-/A	-A	-1	-/A	-A	-1	/A	A	1	-/A	-A	-1	/A	A	1	-/A	-A	-1	/A
$\chi_{112}^{(66)}$	1	A	/A	1	-A	-/A	-1	-A	-/A	-1	A	/A	1	-A	-/A	-1	A	/A	1	-A	-/A	-1	A
$\chi_{112}^{(67)}$	/A	/A	A	1	/A	A	1	A	1	/A	1	/A	A	A	1	/A	1	/A	A	/A	A	1	/A
$\chi_{112}^{(68)}$	A	A	/A	1	A	/A	1	/A	1	A	1	A	/A	/A	1	A	1	A	/A	A	/A	1	A
$\chi_{112}^{(69)}$	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A
$\chi_{112}^{(70)}$	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A

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$\chi_{112}^{(71)}$	A	/A	A	1	/A	A	1	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	/A
$\chi_{112}^{(72)}$	/A	A	/A	1	A	/A	1	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	A
$\chi_{112}^{(73)}$	.	.	.	.	-2	-2	-2	-2	-2	-2	.	.	.	1	1	1	.	.	.	1	1	1	.
$\chi_{112}^{(74)}$	.	.	.	.	-2	-2	-2	-2	-2	-2	.	.	.	-1	-1	-1	.	.	.	-1	-1	-1	.
$\chi_{112}^{(75)}$	.	.	.	.	2	2	2	2	2	2	.	.	.	-1	-1	-1	.	.	.	-1	-1	-1	.
$\chi_{112}^{(76)}$	.	.	.	.	2	2	2	2	2	2	.	.	.	1	1	1	.	.	.	1	1	1	.
$\chi_{112}^{(77)}$	.	.	.	.	/B	B	-2	B	-2	/B	.	.	.	/A	1	A	.	.	.	A	/A	1	.
$\chi_{112}^{(78)}$	.	.	.	.	B	/B	-2	/B	-2	B	.	.	.	A	1	/A	.	.	.	/A	A	1	.
$\chi_{112}^{(79)}$	.	.	.	.	-2	-2	-2	/B	/B	/B	.	.	.	A	A	A	.	.	.	1	1	1	.
$\chi_{112}^{(80)}$	.	.	.	.	-2	-2	-2	B	B	B	.	.	.	/A	/A	/A	.	.	.	1	1	1	.
$\chi_{112}^{(81)}$	.	.	.	.	/B	B	-2	-2	/B	B	.	.	.	1	A	/A	.	.	.	A	/A	1	.
$\chi_{112}^{(82)}$	.	.	.	.	B	/B	-2	-2	B	/B	.	.	.	1	/A	A	.	.	.	/A	A	1	.
$\chi_{112}^{(83)}$	.	.	.	.	B	/B	-2	B	/B	-2	.	.	.	/A	A	1	.	.	.	/A	A	1	.
$\chi_{112}^{(84)}$	.	.	.	.	/B	B	-2	/B	B	-2	.	.	.	A	/A	1	.	.	.	A	/A	1	.
$\chi_{112}^{(85)}$	.	.	.	.	/B	B	-2	B	-2	/B	.	.	.	-/A	-1	-A	.	.	.	-A	-/A	-1	.
$\chi_{112}^{(86)}$	.	.	.	.	B	/B	-2	/B	-2	B	.	.	.	-A	-1	-/A	.	.	.	-/A	-A	-1	.
$\chi_{112}^{(87)}$	.	.	.	.	-2	-2	-2	/B	/B	/B	.	.	.	-A	-A	-A	.	.	.	-1	-1	-1	.
$\chi_{112}^{(88)}$	.	.	.	.	-2	-2	-2	B	B	B	.	.	.	-/A	-/A	-/A	.	.	.	-1	-1	-1	.
$\chi_{112}^{(89)}$	.	.	.	.	/B	B	-2	-2	/B	B	.	.	.	-1	-A	-/A	.	.	.	-A	-/A	-1	.
$\chi_{112}^{(90)}$	.	.	.	.	B	/B	-2	-2	B	/B	.	.	.	-1	-/A	-A	.	.	.	-/A	-A	-1	.
$\chi_{112}^{(91)}$	.	.	.	.	B	/B	-2	B	/B	-2	.	.	.	-/A	-A	-1	.	.	.	-/A	-A	-1	.
$\chi_{112}^{(92)}$	.	.	.	.	/B	B	-2	/B	B	-2	.	.	.	-A	-/A	-1	.	.	.	-A	-/A	-1	.
$\chi_{112}^{(93)}$	.	.	.	.	-/B	-B	2	-B	2	-/B	.	.	.	-/A	-1	-A	.	.	.	-A	-/A	-1	.
$\chi_{112}^{(94)}$	.	.	.	.	-B	-/B	2	-/B	2	-B	.	.	.	-A	-1	-/A	.	.	.	-/A	-A	-1	.
$\chi_{112}^{(95)}$	.	.	.	.	2	2	2	-/B	-/B	-/B	.	.	.	-A	-A	-A	.	.	.	-1	-1	-1	.
$\chi_{112}^{(96)}$	.	.	.	.	2	2	2	-B	-B	-B	.	.	.	-/A	-/A	-/A	.	.	.	-1	-1	-1	.
$\chi_{112}^{(97)}$	.	.	.	.	-/B	-B	2	2	-/B	-B	.	.	.	-1	-A	-/A	.	.	.	-A	-/A	-1	.
$\chi_{112}^{(98)}$	.	.	.	.	-B	-/B	2	2	-B	-/B	.	.	.	-1	-/A	-A	.	.	.	-/A	-A	-1	.
$\chi_{112}^{(99)}$	.	.	.	.	-B	-/B	2	-B	-/B	2	.	.	.	-/A	-A	-1	.	.	.	-/A	-A	-1	.
$\chi_{112}^{(100)}$	.	.	.	.	-/B	-B	2	-/B	-B	2	.	.	.	-A	-/A	-1	.	.	.	-A	-/A	-1	.
$\chi_{112}^{(101)}$	.	.	.	.	-/B	-B	2	-B	2	-/B	.	.	.	/A	1	A	.	.	.	A	/A	1	.
$\chi_{112}^{(102)}$	.	.	.	.	-B	-/B	2	-/B	2	-B	.	.	.	A	1	/A	.	.	.	/A	A	1	.
$\chi_{112}^{(103)}$	.	.	.	.	2	2	2	-/B	-/B	-/B	.	.	.	A	A	A	.	.	.	1	1	1	.
$\chi_{112}^{(104)}$	.	.	.	.	2	2	2	-B	-B	-B	.	.	.	/A	/A	/A	.	.	.	1	1	1	.
$\chi_{112}^{(105)}$	.	.	.	.	-/B	-B	2	2	-/B	-B	.	.	.	1	A	/A	.	.	.	A	/A	1	.
$\chi_{112}^{(106)}$	.	.	.	.	-B	-/B	2	2	-B	-/B	.	.	.	1	/A	A	.	.	.	/A	A	1	.
$\chi_{112}^{(107)}$	.	.	.	.	-B	-/B	2	-B	-/B	2	.	.	.	/A	A	1	.	.	.	/A	A	1	.
$\chi_{112}^{(108)}$	.	.	.	.	-/B	-B	2	-/B	-B	2	.	.	.	A	/A	1	.	.	.	A	/A	1	.

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$\chi_{112}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(2)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{112}^{(3)}$	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{112}^{(4)}$	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{112}^{(5)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(6)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{112}^{(7)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{112}^{(8)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{112}^{(9)}$	1	1	A	A	A	/A	/A	/A	-/A	-/A	-/A	-A	-A	-A	-1	-1	-1	-1	-1	-1	-A	-A	-A
$\chi_{112}^{(10)}$	1	1	/A	/A	/A	A	A	A	-A	-A	-A	-/A	-/A	-/A	-1	-1	-1	-1	-1	-1	-/A	-/A	-/A
$\chi_{112}^{(11)}$	1	1	-/A	-/A	-/A	A	A	A	A	A	A	-/A	-/A	-/A	1	1	1	-1	-1	-1	/A	/A	/A
$\chi_{112}^{(12)}$	1	1	-A	-A	-A	/A	/A	/A	/A	/A	/A	-A	-A	-A	1	1	1	-1	-1	-1	A	A	A
$\chi_{112}^{(13)}$	-1	-1	A	A	A	-/A	-/A	-/A	-/A	-/A	-/A	A	A	A	-1	-1	-1	1	1	1	-A	-A	-A
$\chi_{112}^{(14)}$	-1	-1	/A	/A	/A	-A	-A	-A	-A	-A	-A	/A	/A	/A	-1	-1	-1	1	1	1	-/A	-/A	-/A
$\chi_{112}^{(15)}$	-1	-1	-/A	-/A	-/A	-A	-A	-A	A	A	A	/A	/A	/A	1	1	1	1	1	1	/A	/A	/A
$\chi_{112}^{(16)}$	-1	-1	-A	-A	-A	-/A	-/A	-/A	/A	/A	/A	A	A	A	1	1	1	1	1	1	A	A	A
$\chi_{112}^{(17)}$	A	1	1	/A	A	A	1	/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-A	-/A	-1
$\chi_{112}^{(18)}$	/A	1	1	A	/A	/A	1	A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-/A	-A	-1
$\chi_{112}^{(19)}$	A	1	A	1	/A	1	/A	A	-A	-/A	-1	-/A	-1	-A	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A
$\chi_{112}^{(20)}$	/A	1	/A	1	A	1	A	/A	-/A	-A	-1	-A	-1	-/A	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A
$\chi_{112}^{(21)}$	A	1	/A	A	1	/A	A	1	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A
$\chi_{112}^{(22)}$	/A	1	A	/A	1	A	/A	1	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A
$\chi_{112}^{(23)}$	A	1	-1	-/A	-A	A	1	/A	/A	1	A	-A	-/A	-1	1	A	/A	-1	-A	-/A	A	/A	1
$\chi_{112}^{(24)}$	/A	1	-1	-A	-/A	/A	1	A	A	1	/A	-/A	-A	-1	1	/A	A	-1	-/A	-A	/A	A	1
$\chi_{112}^{(25)}$	A	1	-/A	-A	-1	/A	A	1	1	A	/A	-1	-A	-/A	1	A	/A	-1	-A	-/A	1	A	/A
$\chi_{112}^{(26)}$	/A	1	-A	-/A	-1	A	/A	1	1	/A	A	-1	-/A	-A	1	/A	A	-1	-/A	-A	1	/A	A
$\chi_{112}^{(27)}$	A	1	-A	-1	-/A	1	/A	A	A	/A	1	-/A	-1	-A	1	A	/A	-1	-A	-/A	/A	1	A
$\chi_{112}^{(28)}$	/A	1	-/A	-1	-A	1	A	/A	/A	A	1	-A	-1	-/A	1	/A	A	-1	-/A	-A	A	1	/A
$\chi_{112}^{(29)}$	-A	-1	1	/A	A	-A	-1	-/A	-/A	-1	-A	A	/A	1	-1	-A	-/A	1	A	/A	-A	-/A	-1
$\chi_{112}^{(30)}$	-/A	-1	1	A	/A	-/A	-1	-A	-A	-1	-/A	/A	A	1	-1	-/A	-A	1	/A	A	-/A	-A	-1
$\chi_{112}^{(31)}$	-A	-1	A	1	/A	-1	-/A	-A	-A	-/A	-1	/A	1	A	-1	-A	-/A	1	A	/A	-/A	-1	-A
$\chi_{112}^{(32)}$	-/A	-1	/A	1	A	-1	-A	-/A	-/A	-A	-1	A	1	/A	-1	-/A	-A	1	/A	A	-A	-1	-/A
$\chi_{112}^{(33)}$	-A	-1	/A	A	1	-/A	-A	-1	-1	-A	-/A	1	A	/A	-1	-A	-/A	1	A	/A	-1	-A	-/A
$\chi_{112}^{(34)}$	-/A	-1	A	/A	1	-A	-/A	-1	-1	-/A	-A	1	/A	A	-1	-/A	-A	1	/A	A	-1	-/A	-A
$\chi_{112}^{(35)}$	-A	-1	-1	-/A	-A	-A	-1	-/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	A	/A	1
$\chi_{112}^{(36)}$	-/A	-1	-1	-A	-/A	-/A	-1	-A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	/A	A	1
$\chi_{112}^{(37)}$	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A
$\chi_{112}^{(38)}$	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A
$\chi_{112}^{(39)}$	-A	-1	-A	-1	-/A	-1	-/A	-A	A	/A	1	/A	1	A	1	A	/A	1	A	/A	/A	1	A
$\chi_{112}^{(40)}$	-/A	-1	-/A	-1	-A	-1	-A	-/A	/A	A	1	A	1	/A	1	/A	A	1	/A	A	A	1	/A
$\chi_{112}^{(41)}$	-1	-1	-A	-A	-A	-/A	-/A	-/A	-/A	-/A	-/A	-A	-A	-A	-1	-1	-1	-1	-1	-1	-A	-A	-A
$\chi_{112}^{(42)}$	-1	-1	-/A	-/A	-/A	-A	-A	-A	-A	-A	-A	-/A	-/A	-/A	-1	-1	-1	-1	-1	-1	-/A	-/A	-/A
$\chi_{112}^{(43)}$	-1	-1	/A	/A	/A	-A	-A	-A	A	A	A	-/A	-/A	-/A	1	1	1	-1	-1	-1	/A	/A	/A
$\chi_{112}^{(44)}$	-1	-1	A	A	A	-/A	-/A	-/A	/A	/A	/A	-A	-A	-A	1	1	1	-1	-1	-1	A	A	A
$\chi_{112}^{(45)}$	1	1	-A	-A	-A	/A	/A	/A	-/A	-/A	-/A	A	A	A	-1	-1	-1	1	1	1	-A	-A	-A

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$\chi_{112}^{(46)}$	1	1	-/A	-/A	-/A	A	A	A	-A	-A	-A	/A	/A	/A	-1	-1	-1	1	1	1	-/A	-/A	-/A
$\chi_{112}^{(47)}$	1	1	/A	/A	/A	A	A	A	A	A	A	/A	/A	/A	1	1	1	1	1	1	/A	/A	/A
$\chi_{112}^{(48)}$	1	1	A	A	A	/A	/A	/A	/A	/A	/A	A	A	A	1	1	1	1	1	1	A	A	A
$\chi_{112}^{(49)}$	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-A	-/A	-1
$\chi_{112}^{(50)}$	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-/A	-A	-1
$\chi_{112}^{(51)}$	-A	-1	-A	-1	-/A	-1	-/A	-A	-A	-/A	-1	-/A	-1	-A	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A
$\chi_{112}^{(52)}$	-/A	-1	-/A	-1	-A	-1	-A	-/A	-/A	-A	-1	-A	-1	-/A	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A
$\chi_{112}^{(53)}$	-A	-1	-/A	-A	-1	-/A	-A	-1	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A
$\chi_{112}^{(54)}$	-/A	-1	-A	-/A	-1	-A	-/A	-1	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A
$\chi_{112}^{(55)}$	-A	-1	1	/A	A	-A	-1	-/A	/A	1	A	-A	-/A	-1	1	A	/A	-1	-A	-/A	A	/A	1
$\chi_{112}^{(56)}$	-/A	-1	1	A	/A	-/A	-1	-A	A	1	/A	-/A	-A	-1	1	/A	A	-1	-/A	-A	/A	A	1
$\chi_{112}^{(57)}$	-A	-1	/A	A	1	-/A	-A	-1	1	A	/A	-1	-A	-/A	1	A	/A	-1	-A	-/A	1	A	/A
$\chi_{112}^{(58)}$	-/A	-1	A	/A	1	-A	-/A	-1	1	/A	A	-1	-/A	-A	1	/A	A	-1	-/A	-A	1	/A	A
$\chi_{112}^{(59)}$	-A	-1	A	1	/A	-1	-/A	-A	A	/A	1	-/A	-1	-A	1	A	/A	-1	-A	-/A	/A	1	A
$\chi_{112}^{(60)}$	-/A	-1	/A	1	A	-1	-A	-/A	/A	A	1	-A	-1	-/A	1	/A	A	-1	-/A	-A	A	1	/A
$\chi_{112}^{(61)}$	A	1	-1	-/A	-A	A	1	/A	-/A	-1	-A	A	/A	1	-1	-A	-/A	1	A	/A	-A	-/A	-1
$\chi_{112}^{(62)}$	/A	1	-1	-A	-/A	/A	1	A	-A	-1	-/A	/A	A	1	-1	-/A	-A	1	/A	A	-/A	-A	-1
$\chi_{112}^{(63)}$	A	1	-A	-1	-/A	1	/A	A	-A	-/A	-1	/A	1	A	-1	-A	-/A	1	A	/A	-/A	-1	-A
$\chi_{112}^{(64)}$	/A	1	-/A	-1	-A	1	A	/A	-/A	-A	-1	A	1	/A	-1	-/A	-A	1	/A	A	-A	-1	-/A
$\chi_{112}^{(65)}$	A	1	-/A	-A	-1	/A	A	1	-1	-A	-/A	1	A	/A	-1	-A	-/A	1	A	/A	-1	-A	-/A
$\chi_{112}^{(66)}$	/A	1	-A	-/A	-1	A	/A	1	-1	-/A	-A	1	/A	A	-1	-/A	-A	1	/A	A	-1	-/A	-A
$\chi_{112}^{(67)}$	A	1	1	/A	A	A	1	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	A	/A	1
$\chi_{112}^{(68)}$	/A	1	1	A	/A	/A	1	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	/A	A	1
$\chi_{112}^{(69)}$	A	1	/A	A	1	/A	A	1	1	A	/A	1	A	/A	1	A	/A	1	A	/A	1	A	/A
$\chi_{112}^{(70)}$	/A	1	A	/A	1	A	/A	1	1	/A	A	1	/A	A	1	/A	A	1	/A	A	1	/A	A
$\chi_{112}^{(71)}$	A	1	A	1	/A	1	/A	A	A	/A	1	/A	1	A	1	A	/A	1	A	/A	/A	1	A
$\chi_{112}^{(72)}$	/A	1	/A	1	A	1	A	/A	/A	A	1	A	1	/A	1	/A	A	1	/A	A	A	1	/A
$\chi_{112}^{(73)}$	.	.	1	1	1	.	.	.	.	.	.	2	2	2	.	.	.	2	2	2	.	.	.
$\chi_{112}^{(74)}$	.	.	-1	-1	-1	.	.	.	.	.	.	-2	-2	-2	.	.	.	-2	-2	-2	.	.	.
$\chi_{112}^{(75)}$	.	.	-1	-1	-1	.	.	.	.	.	.	2	2	2	.	.	.	2	2	2	.	.	.
$\chi_{112}^{(76)}$	.	.	1	1	1	.	.	.	.	.	.	-2	-2	-2	.	.	.	-2	-2	-2	.	.	.
$\chi_{112}^{(77)}$	.	.	1	A	/A	.	.	.	.	.	.	-B	-/B	2	.	.	.	2	-B	-/B	.	.	.
$\chi_{112}^{(78)}$	.	.	1	/A	A	.	.	.	.	.	.	-/B	-B	2	.	.	.	2	-/B	-B	.	.	.
$\chi_{112}^{(79)}$	.	.	/A	/A	/A	.	.	.	.	.	.	-B	-B	-B	.	.	.	2	2	2	.	.	.
$\chi_{112}^{(80)}$	.	.	A	A	A	.	.	.	.	.	.	-/B	-/B	-/B	.	.	.	2	2	2	.	.	.
$\chi_{112}^{(81)}$	.	.	/A	1	A	.	.	.	.	.	.	-/B	2	-B	.	.	.	2	-B	-/B	.	.	.
$\chi_{112}^{(82)}$	.	.	A	1	/A	.	.	.	.	.	.	-B	2	-/B	.	.	.	2	-/B	-B	.	.	.
$\chi_{112}^{(83)}$	.	.	/A	A	1	.	.	.	.	.	.	2	-/B	-B	.	.	.	2	-/B	-B	.	.	.
$\chi_{112}^{(84)}$	.	.	A	/A	1	.	.	.	.	.	.	2	-B	-/B	.	.	.	2	-B	-/B	.	.	.
$\chi_{112}^{(85)}$	.	.	-1	-A	-/A	.	.	.	.	.	.	B	/B	-2	.	.	.	-2	B	/B	.	.	.
$\chi_{112}^{(86)}$	.	.	-1	-/A	-A	.	.	.	.	.	.	/B	B	-2	.	.	.	-2	/B	B	.	.	.
$\chi_{112}^{(87)}$	.	.	-/A	-/A	-/A	.	.	.	.	.	.	B	B	B	.	.	.	-2	-2	-2	.	.	.
$\chi_{112}^{(88)}$	.	.	-A	-A	-A	.	.	.	.	.	.	/B	/B	/B	.	.	.	-2	-2	-2	.	.	.
$\chi_{112}^{(89)}$	.	.	-/A	-1	-A	.	.	.	.	.	.	/B	-2	B	.	.	.	-2	B	/B	.	.	.
$\chi_{112}^{(90)}$	.	.	-A	-1	-/A	.	.	.	.	.	.	B	-2	/B	.	.	.	-2	/B	B	.	.	.

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$\chi_{112}^{(91)}$	.	.	-/A	-A	-1	.	.	.	.	.	-2	/B	B	.	.	.	-2	/B	B	.	.	.
$\chi_{112}^{(92)}$	.	.	-A	-/A	-1	.	.	.	.	.	-2	B	/B	.	.	.	-2	B	/B	.	.	.
$\chi_{112}^{(93)}$	.	.	-1	-A	-/A	.	.	.	.	.	-B	-/B	2	.	.	.	2	-B	-/B	.	.	.
$\chi_{112}^{(94)}$	.	.	-1	-/A	-A	.	.	.	.	.	-/B	-B	2	.	.	.	2	-/B	-B	.	.	.
$\chi_{112}^{(95)}$	.	.	-/A	-/A	-/A	.	.	.	.	.	-B	-B	-B	.	.	.	2	2	2	.	.	.
$\chi_{112}^{(96)}$	.	.	-A	-A	-A	.	.	.	.	.	-/B	-/B	-/B	.	.	.	2	2	2	.	.	.
$\chi_{112}^{(97)}$	.	.	-/A	-1	-A	.	.	.	.	.	-/B	2	-B	.	.	.	2	-B	-/B	.	.	.
$\chi_{112}^{(98)}$	.	.	-A	-1	-/A	.	.	.	.	.	-B	2	-/B	.	.	.	2	-/B	-B	.	.	.
$\chi_{112}^{(99)}$	.	.	-/A	-A	-1	.	.	.	.	.	2	-/B	-B	.	.	.	2	-/B	-B	.	.	.
$\chi_{112}^{(100)}$	.	.	-A	-/A	-1	.	.	.	.	.	2	-B	-/B	.	.	.	2	-B	-/B	.	.	.
$\chi_{112}^{(101)}$	.	.	1	A	/A	.	.	.	.	.	B	/B	-2	.	.	.	-2	B	/B	.	.	.
$\chi_{112}^{(102)}$	.	.	1	/A	A	.	.	.	.	.	/B	B	-2	.	.	.	-2	/B	B	.	.	.
$\chi_{112}^{(103)}$	.	.	/A	/A	/A	.	.	.	.	.	B	B	B	.	.	.	-2	-2	-2	.	.	.
$\chi_{112}^{(104)}$	.	.	A	A	A	.	.	.	.	.	/B	/B	/B	.	.	.	-2	-2	-2	.	.	.
$\chi_{112}^{(105)}$	.	.	/A	1	A	.	.	.	.	.	/B	-2	B	.	.	.	-2	B	/B	.	.	.
$\chi_{112}^{(106)}$	.	.	A	1	/A	.	.	.	.	.	B	-2	/B	.	.	.	-2	/B	B	.	.	.
$\chi_{112}^{(107)}$	.	.	/A	A	1	.	.	.	.	.	-2	/B	B	.	.	.	-2	/B	B	.	.	.
$\chi_{112}^{(108)}$	.	.	A	/A	1	.	.	.	.	.	-2	B	/B	.	.	.	-2	B	/B	.	.	.

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$\chi_{112}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(2)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{112}^{(3)}$	-1	-1	-1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{112}^{(4)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(5)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{112}^{(6)}$	-1	-1	-1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{112}^{(7)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{112}^{(8)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{112}^{(9)}$	-/A	-/A	-/A	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	-/A	/A
$\chi_{112}^{(10)}$	-A	-A	-A	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	-A	A
$\chi_{112}^{(11)}$	-A	-A	-A	/A	/A	/A	1	1	1	A	A	A	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	-A	-A
$\chi_{112}^{(12)}$	-/A	-/A	-/A	A	A	A	1	1	1	/A	/A	/A	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	-/A	-/A
$\chi_{112}^{(13)}$	/A	/A	/A	A	A	A	1	1	1	/A	/A	/A	A	A	A	1	1	1	/A	/A	/A	/A	/A
$\chi_{112}^{(14)}$	A	A	A	/A	/A	/A	1	1	1	A	A	A	/A	/A	/A	1	1	1	A	A	A	A	A
$\chi_{112}^{(15)}$	A	A	A	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	/A	/A	/A	1	1	1	A	A	A	A	-A
$\chi_{112}^{(16)}$	/A	/A	/A	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	A	A	A	1	1	1	/A	/A	/A	/A	-/A
$\chi_{112}^{(17)}$	-/A	-1	-A	-1	-/A	-A	-/A	-A	-1	-A	-1	-/A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	A	
$\chi_{112}^{(18)}$	-A	-1	-/A	-1	-A	-/A	-A	-/A	-1	-/A	-1	-A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	/A	
$\chi_{112}^{(19)}$	-A	-/A	-1	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-/A	-1	-A	-1	-A	-/A	-A	-/A	-1	1	
$\chi_{112}^{(20)}$	-/A	-A	-1	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-A	-1	-/A	-1	-/A	-A	-/A	-A	-1	1	
$\chi_{112}^{(21)}$	-1	-A	-/A	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	/A	
$\chi_{112}^{(22)}$	-1	-/A	-A	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	A	
$\chi_{112}^{(23)}$	-/A	-1	-A	1	/A	A	/A	A	1	A	1	/A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A	
$\chi_{112}^{(24)}$	-A	-1	-/A	1	A	/A	A	/A	1	/A	1	A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A	
$\chi_{112}^{(25)}$	-1	-A	-/A	/A	A	1	/A	A	1	/A	A	1	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-/A	

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$\chi_{112}^{(26)}$	-1	-/A	-A	A	/A	1	A	/A	1	A	/A	1	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-A
$\chi_{112}^{(27)}$	-A	-/A	-1	A	1	/A	/A	A	1	1	/A	A	-/A	-1	-A	-1	-A	-/A	-A	-/A	-1	-1
$\chi_{112}^{(28)}$	-/A	-A	-1	/A	1	A	A	/A	1	1	A	/A	-A	-1	-/A	-1	-/A	-A	-/A	-A	-1	-1
$\chi_{112}^{(29)}$	/A	1	A	1	/A	A	/A	A	1	A	1	/A	A	/A	1	1	A	/A	/A	1	A	A
$\chi_{112}^{(30)}$	A	1	/A	1	A	/A	A	/A	1	/A	1	A	/A	A	1	1	/A	A	A	1	/A	/A
$\chi_{112}^{(31)}$	A	/A	1	A	1	/A	/A	A	1	1	/A	A	/A	1	A	1	A	/A	A	/A	1	1
$\chi_{112}^{(32)}$	/A	A	1	/A	1	A	A	/A	1	1	A	/A	A	1	/A	1	/A	A	/A	A	1	1
$\chi_{112}^{(33)}$	1	A	/A	/A	A	1	/A	A	1	/A	A	1	1	A	/A	1	A	/A	1	A	/A	/A
$\chi_{112}^{(34)}$	1	/A	A	A	/A	1	A	/A	1	A	/A	1	1	/A	A	1	/A	A	1	/A	A	A
$\chi_{112}^{(35)}$	/A	1	A	-1	-/A	-A	-/A	-A	-1	-A	-1	-/A	A	/A	1	1	A	/A	/A	1	A	-A
$\chi_{112}^{(36)}$	A	1	/A	-1	-A	-/A	-A	-/A	-1	-/A	-1	-A	/A	A	1	1	/A	A	A	1	/A	-/A
$\chi_{112}^{(37)}$	1	A	/A	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A	1	A	/A	1	A	/A	-/A
$\chi_{112}^{(38)}$	1	/A	A	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A	1	/A	A	1	/A	A	-A
$\chi_{112}^{(39)}$	A	/A	1	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	/A	1	A	1	A	/A	A	/A	1	-1
$\chi_{112}^{(40)}$	/A	A	1	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	A	1	/A	1	/A	A	/A	A	1	-1
$\chi_{112}^{(41)}$	-/A	-/A	-/A	A	A	A	1	1	1	/A	/A	/A	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	-/A
$\chi_{112}^{(42)}$	-A	-A	-A	/A	/A	/A	1	1	1	A	A	A	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	-A
$\chi_{112}^{(43)}$	-A	-A	-A	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	A
$\chi_{112}^{(44)}$	-/A	-/A	-/A	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	/A
$\chi_{112}^{(45)}$	/A	/A	/A	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	A	A	A	1	1	1	/A	/A	/A	-/A
$\chi_{112}^{(46)}$	A	A	A	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	/A	/A	/A	1	1	1	A	A	A	-A
$\chi_{112}^{(47)}$	A	A	A	/A	/A	/A	1	1	1	A	A	A	/A	/A	/A	1	1	1	A	A	A	A
$\chi_{112}^{(48)}$	/A	/A	/A	A	A	A	1	1	1	/A	/A	/A	A	A	A	1	1	1	/A	/A	/A	/A
$\chi_{112}^{(49)}$	-/A	-1	-A	1	/A	A	/A	A	1	A	1	/A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-A
$\chi_{112}^{(50)}$	-A	-1	-/A	1	A	/A	A	/A	1	/A	1	A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-/A
$\chi_{112}^{(51)}$	-A	-/A	-1	A	1	/A	/A	A	1	1	/A	A	-/A	-1	-A	-1	-A	-/A	-A	-/A	-1	-1
$\chi_{112}^{(52)}$	-/A	-A	-1	/A	1	A	A	/A	1	1	A	/A	-A	-1	-/A	-1	-/A	-A	-/A	-A	-1	-1
$\chi_{112}^{(53)}$	-1	-A	-/A	/A	A	1	/A	A	1	/A	A	1	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-/A
$\chi_{112}^{(54)}$	-1	-/A	-A	A	/A	1	A	/A	1	A	/A	1	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-A
$\chi_{112}^{(55)}$	-/A	-1	-A	-1	-/A	-A	-/A	-A	-1	-A	-1	-/A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	A
$\chi_{112}^{(56)}$	-A	-1	-/A	-1	-A	-/A	-A	-/A	-1	-/A	-1	-A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	/A
$\chi_{112}^{(57)}$	-1	-A	-/A	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	/A
$\chi_{112}^{(58)}$	-1	-/A	-A	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	A
$\chi_{112}^{(59)}$	-A	-/A	-1	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-/A	-1	-A	-1	-A	-/A	-A	-/A	-1	1
$\chi_{112}^{(60)}$	-/A	-A	-1	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-A	-1	-/A	-1	-/A	-A	-/A	-A	-1	1
$\chi_{112}^{(61)}$	/A	1	A	-1	-/A	-A	-/A	-A	-1	-A	-1	-/A	A	/A	1	1	A	/A	/A	1	A	-A
$\chi_{112}^{(62)}$	A	1	/A	-1	-A	-/A	-A	-/A	-1	-/A	-1	-A	/A	A	1	1	/A	A	A	1	/A	-/A
$\chi_{112}^{(63)}$	A	/A	1	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	/A	1	A	1	A	/A	A	/A	1	-1
$\chi_{112}^{(64)}$	/A	A	1	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	A	1	/A	1	/A	A	/A	A	1	-1
$\chi_{112}^{(65)}$	1	A	/A	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A	1	A	/A	1	A	/A	-/A
$\chi_{112}^{(66)}$	1	/A	A	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A	1	/A	A	1	/A	A	-A
$\chi_{112}^{(67)}$	/A	1	A	1	/A	A	/A	A	1	A	1	/A	A	/A	1	1	A	/A	/A	1	A	A
$\chi_{112}^{(68)}$	A	1	/A	1	A	/A	A	/A	1	/A	1	A	/A	A	1	1	/A	A	A	1	/A	/A
$\chi_{112}^{(69)}$	1	A	/A	/A	A	1	/A	A	1	/A	A	1	1	A	/A	1	A	/A	1	A	/A	/A
$\chi_{112}^{(70)}$	1	/A	A	A	/A	1	A	/A	1	A	/A	1	1	/A	A	1	/A	A	1	/A	A	A

	70											80										90
$\chi_{112}^{(71)}$	A	/A	1	A	1	/A	/A	A	1	1	/A	A	/A	1	A	1	A	/A	A	/A	1	1
$\chi_{112}^{(72)}$	/A	A	1	/A	1	A	A	/A	1	1	A	/A	A	1	/A	1	/A	A	/A	A	1	1
$\chi_{112}^{(73)}$	2	2	2	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2
$\chi_{112}^{(74)}$	-2	-2	-2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
$\chi_{112}^{(75)}$	2	2	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2
$\chi_{112}^{(76)}$	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	-2
$\chi_{112}^{(77)}$	-/B	2	-B	1	A	/A	A	/A	1	/A	1	A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	B
$\chi_{112}^{(78)}$	-B	2	-/B	1	/A	A	/A	A	1	A	1	/A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	/B
$\chi_{112}^{(79)}$	-/B	-/B	-/B	/A	/A	/A	1	1	1	A	A	A	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	/B
$\chi_{112}^{(80)}$	-B	-B	-B	A	A	A	1	1	1	/A	/A	/A	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	B
$\chi_{112}^{(81)}$	-B	-/B	2	/A	1	A	A	/A	1	1	A	/A	-A	-1	-/A	-1	-/A	-A	-/A	-A	-1	-2
$\chi_{112}^{(82)}$	-/B	-B	2	A	1	/A	/A	A	1	1	/A	A	-/A	-1	-A	-1	-A	-/A	-A	-/A	-1	-2
$\chi_{112}^{(83)}$	2	-/B	-B	/A	A	1	/A	A	1	/A	A	1	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	B
$\chi_{112}^{(84)}$	2	-B	-/B	A	/A	1	A	/A	1	A	/A	1	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	/B
$\chi_{112}^{(85)}$	/B	-2	B	1	A	/A	A	/A	1	/A	1	A	/A	A	1	1	/A	A	A	1	/A	-B
$\chi_{112}^{(86)}$	B	-2	/B	1	/A	A	/A	A	1	A	1	/A	A	/A	1	1	A	/A	/A	1	A	-/B
$\chi_{112}^{(87)}$	/B	/B	/B	/A	/A	/A	1	1	1	A	A	A	/A	/A	/A	1	1	1	A	A	A	-/B
$\chi_{112}^{(88)}$	B	B	B	A	A	A	1	1	1	/A	/A	/A	A	A	A	1	1	1	/A	/A	/A	-B
$\chi_{112}^{(89)}$	B	/B	-2	/A	1	A	A	/A	1	1	A	/A	A	1	/A	1	/A	A	/A	A	1	2
$\chi_{112}^{(90)}$	/B	B	-2	A	1	/A	/A	A	1	1	/A	A	/A	1	A	1	A	/A	A	/A	1	2
$\chi_{112}^{(91)}$	-2	/B	B	/A	A	1	/A	A	1	/A	A	1	1	A	/A	1	A	/A	1	A	/A	-B
$\chi_{112}^{(92)}$	-2	B	/B	A	/A	1	A	/A	1	A	/A	1	1	/A	A	1	/A	A	1	/A	A	-/B
$\chi_{112}^{(93)}$	-/B	2	-B	-1	-A	-/A	-A	-/A	-1	-/A	-1	-A	-/A	-A	-1	-1	-/A	-A	-A	-1	-/A	-B
$\chi_{112}^{(94)}$	-B	2	-/B	-1	-/A	-A	-/A	-A	-1	-A	-1	-/A	-A	-/A	-1	-1	-A	-/A	-/A	-1	-A	-/B
$\chi_{112}^{(95)}$	-/B	-/B	-/B	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	-/B
$\chi_{112}^{(96)}$	-B	-B	-B	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	-B
$\chi_{112}^{(97)}$	-B	-/B	2	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-A	-1	-/A	-1	-/A	-A	-/A	-A	-1	2
$\chi_{112}^{(98)}$	-/B	-B	2	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-/A	-1	-A	-1	-A	-/A	-A	-/A	-1	2
$\chi_{112}^{(99)}$	2	-/B	-B	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-B
$\chi_{112}^{(100)}$	2	-B	-/B	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-/B
$\chi_{112}^{(101)}$	/B	-2	B	-1	-A	-/A	-A	-/A	-1	-/A	-1	-A	/A	A	1	1	/A	A	A	1	/A	B
$\chi_{112}^{(102)}$	B	-2	/B	-1	-/A	-A	-/A	-A	-1	-A	-1	-/A	A	/A	1	1	A	/A	/A	1	A	/B
$\chi_{112}^{(103)}$	/B	/B	/B	-/A	-/A	-/A	-1	-1	-1	-A	-A	-A	/A	/A	/A	1	1	1	A	A	A	/B
$\chi_{112}^{(104)}$	B	B	B	-A	-A	-A	-1	-1	-1	-/A	-/A	-/A	A	A	A	1	1	1	/A	/A	/A	B
$\chi_{112}^{(105)}$	B	/B	-2	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	A	1	/A	1	/A	A	/A	A	1	-2
$\chi_{112}^{(106)}$	/B	B	-2	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	/A	1	A	1	A	/A	A	/A	1	-2
$\chi_{112}^{(107)}$	-2	/B	B	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A	1	A	/A	1	A	/A	B
$\chi_{112}^{(108)}$	-2	B	/B	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A	1	/A	A	1	/A	A	/B

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$\chi_{112}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(2)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(3)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1	1	1	1
$\chi_{112}^{(4)}$	1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1
$\chi_{112}^{(5)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(6)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{112}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1
$\chi_{112}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1	1	1	1
$\chi_{112}^{(9)}$	/A	/A	1	1	1	A	A	A	/A	/A	/A	A	1	1	A	A	A
$\chi_{112}^{(10)}$	A	A	1	1	1	/A	/A	/A	A	A	A	/A	1	1	/A	/A	/A
$\chi_{112}^{(11)}$	-A	-A	-1	-1	-1	-/A	-/A	-/A	A	A	A	-/A	1	1	/A	/A	/A
$\chi_{112}^{(12)}$	-/A	-/A	-1	-1	-1	-A	-A	-A	/A	/A	/A	-A	1	1	A	A	A
$\chi_{112}^{(13)}$	/A	/A	1	1	1	A	A	A	/A	/A	/A	-A	1	1	A	A	A
$\chi_{112}^{(14)}$	A	A	1	1	1	/A	/A	/A	A	A	A	-/A	1	1	/A	/A	/A
$\chi_{112}^{(15)}$	-A	-A	-1	-1	-1	-/A	-/A	-/A	A	A	A	/A	1	1	/A	/A	/A
$\chi_{112}^{(16)}$	-/A	-/A	-1	-1	-1	-A	-A	-A	/A	/A	/A	A	1	1	A	A	A
$\chi_{112}^{(17)}$	1	/A	/A	A	1	1	/A	A	/A	1	A	A	A	/A	A	/A	1
$\chi_{112}^{(18)}$	1	A	A	/A	1	1	A	/A	A	1	/A	/A	/A	A	/A	A	1
$\chi_{112}^{(19)}$	/A	A	/A	A	1	A	1	/A	A	/A	1	/A	A	/A	/A	1	A
$\chi_{112}^{(20)}$	A	/A	A	/A	1	/A	1	A	/A	A	1	A	/A	A	A	1	/A
$\chi_{112}^{(21)}$	A	1	/A	A	1	/A	A	1	1	A	/A	1	A	/A	1	A	/A
$\chi_{112}^{(22)}$	/A	1	A	/A	1	A	/A	1	1	/A	A	1	/A	A	1	/A	A
$\chi_{112}^{(23)}$	-1	-/A	-/A	-A	-1	-1	-/A	-A	/A	1	A	-A	A	/A	A	/A	1
$\chi_{112}^{(24)}$	-1	-A	-A	-/A	-1	-1	-A	-/A	A	1	/A	-/A	/A	A	/A	A	1
$\chi_{112}^{(25)}$	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A	-1	A	/A	1	A	/A
$\chi_{112}^{(26)}$	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A	-1	/A	A	1	/A	A
$\chi_{112}^{(27)}$	-/A	-A	-/A	-A	-1	-A	-1	-/A	A	/A	1	-/A	A	/A	/A	1	A
$\chi_{112}^{(28)}$	-A	-/A	-A	-/A	-1	-/A	-1	-A	/A	A	1	-A	/A	A	A	1	/A
$\chi_{112}^{(29)}$	1	/A	/A	A	1	1	/A	A	/A	1	A	-A	A	/A	A	/A	1
$\chi_{112}^{(30)}$	1	A	A	/A	1	1	A	/A	A	1	/A	-/A	/A	A	/A	A	1
$\chi_{112}^{(31)}$	/A	A	/A	A	1	A	1	/A	A	/A	1	-/A	A	/A	/A	1	A
$\chi_{112}^{(32)}$	A	/A	A	/A	1	/A	1	A	/A	A	1	-A	/A	A	A	1	/A
$\chi_{112}^{(33)}$	A	1	/A	A	1	/A	A	1	1	A	/A	-1	A	/A	1	A	/A
$\chi_{112}^{(34)}$	/A	1	A	/A	1	A	/A	1	1	/A	A	-1	/A	A	1	/A	A
$\chi_{112}^{(35)}$	-1	-/A	-/A	-A	-1	-1	-/A	-A	/A	1	A	A	A	/A	A	/A	1
$\chi_{112}^{(36)}$	-1	-A	-A	-/A	-1	-1	-A	-/A	A	1	/A	/A	/A	A	/A	A	1
$\chi_{112}^{(37)}$	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A	1	A	/A	1	A	/A
$\chi_{112}^{(38)}$	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A	1	/A	A	1	/A	A
$\chi_{112}^{(39)}$	-/A	-A	-/A	-A	-1	-A	-1	-/A	A	/A	1	/A	A	/A	/A	1	A
$\chi_{112}^{(40)}$	-A	-/A	-A	-/A	-1	-/A	-1	-A	/A	A	1	A	/A	A	A	1	/A
$\chi_{112}^{(41)}$	-/A	-/A	-1	-1	-1	-A	-A	-A	/A	/A	/A	A	1	1	A	A	A
$\chi_{112}^{(42)}$	-A	-A	-1	-1	-1	-/A	-/A	-/A	A	A	A	/A	1	1	/A	/A	/A
$\chi_{112}^{(43)}$	A	A	1	1	1	/A	/A	/A	A	A	A	-/A	1	1	/A	/A	/A
$\chi_{112}^{(44)}$	/A	/A	1	1	1	A	A	A	/A	/A	/A	-A	1	1	A	A	A
$\chi_{112}^{(45)}$	-/A	-/A	-1	-1	-1	-A	-A	-A	/A	/A	/A	-A	1	1	A	A	A

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$\chi_{112}^{(46)}$	-A	-A	-1	-1	-1	-/A	-/A	-/A	A	A	A	-/A	1	1	/A	/A	/A
$\chi_{112}^{(47)}$	A	A	1	1	1	/A	/A	/A	A	A	A	/A	1	1	/A	/A	/A
$\chi_{112}^{(48)}$	/A	/A	1	1	1	A	A	A	/A	/A	/A	A	1	1	A	A	A
$\chi_{112}^{(49)}$	-1	-/A	-/A	-A	-1	-1	-/A	-A	/A	1	A	A	A	/A	A	/A	1
$\chi_{112}^{(50)}$	-1	-A	-A	-/A	-1	-1	-A	-/A	A	1	/A	/A	/A	A	/A	A	1
$\chi_{112}^{(51)}$	-/A	-A	-/A	-A	-1	-A	-1	-/A	A	/A	1	/A	A	/A	/A	1	A
$\chi_{112}^{(52)}$	-A	-/A	-A	-/A	-1	-/A	-1	-A	/A	A	1	A	/A	A	A	1	/A
$\chi_{112}^{(53)}$	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A	1	A	/A	1	A	/A
$\chi_{112}^{(54)}$	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A	1	/A	A	1	/A	A
$\chi_{112}^{(55)}$	1	/A	/A	A	1	1	/A	A	/A	1	A	-A	A	/A	A	/A	1
$\chi_{112}^{(56)}$	1	A	A	/A	1	1	A	/A	A	1	/A	-/A	/A	A	/A	A	1
$\chi_{112}^{(57)}$	A	1	/A	A	1	/A	A	1	1	A	/A	-1	A	/A	1	A	/A
$\chi_{112}^{(58)}$	/A	1	A	/A	1	A	/A	1	1	/A	A	-1	/A	A	1	/A	A
$\chi_{112}^{(59)}$	/A	A	/A	A	1	A	1	/A	A	/A	1	-/A	A	/A	/A	1	A
$\chi_{112}^{(60)}$	A	/A	A	/A	1	/A	1	A	/A	A	1	-A	/A	A	A	1	/A
$\chi_{112}^{(61)}$	-1	-/A	-/A	-A	-1	-1	-/A	-A	/A	1	A	-A	A	/A	A	/A	1
$\chi_{112}^{(62)}$	-1	-A	-A	-/A	-1	-1	-A	-/A	A	1	/A	-/A	/A	A	/A	A	1
$\chi_{112}^{(63)}$	-/A	-A	-/A	-A	-1	-A	-1	-/A	A	/A	1	-/A	A	/A	/A	1	A
$\chi_{112}^{(64)}$	-A	-/A	-A	-/A	-1	-/A	-1	-A	/A	A	1	-A	/A	A	A	1	/A
$\chi_{112}^{(65)}$	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A	-1	A	/A	1	A	/A
$\chi_{112}^{(66)}$	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A	-1	/A	A	1	/A	A
$\chi_{112}^{(67)}$	1	/A	/A	A	1	1	/A	A	/A	1	A	A	A	/A	A	/A	1
$\chi_{112}^{(68)}$	1	A	A	/A	1	1	A	/A	A	1	/A	/A	/A	A	/A	A	1
$\chi_{112}^{(69)}$	A	1	/A	A	1	/A	A	1	1	A	/A	1	A	/A	1	A	/A
$\chi_{112}^{(70)}$	/A	1	A	/A	1	A	/A	1	1	/A	A	1	/A	A	1	/A	A
$\chi_{112}^{(71)}$	/A	A	/A	A	1	A	1	/A	A	/A	1	/A	A	/A	/A	1	A
$\chi_{112}^{(72)}$	A	/A	A	/A	1	/A	1	A	/A	A	1	A	/A	A	A	1	/A
$\chi_{112}^{(73)}$	-2	-2	-2	-2	-2	-2	-2	-2	2	2	2	.	2	2	2	2	2
$\chi_{112}^{(74)}$	2	2	2	2	2	2	2	2	2	2	2	.	2	2	2	2	2
$\chi_{112}^{(75)}$	2	2	2	2	2	2	2	2	2	2	2	.	2	2	2	2	2
$\chi_{112}^{(76)}$	-2	-2	-2	-2	-2	-2	-2	-2	2	2	2	.	2	2	2	2	2
$\chi_{112}^{(77)}$	-2	/B	/B	B	-2	-2	/B	B	-/B	2	-B	.	-B	-/B	-B	-/B	2
$\chi_{112}^{(78)}$	-2	B	B	/B	-2	-2	B	/B	-B	2	-/B	.	-/B	-B	-/B	-B	2
$\chi_{112}^{(79)}$	/B	/B	-2	-2	-2	B	B	B	-/B	-/B	-/B	.	2	2	-B	-B	-B
$\chi_{112}^{(80)}$	B	B	-2	-2	-2	/B	/B	/B	-B	-B	-B	.	2	2	-/B	-/B	-/B
$\chi_{112}^{(81)}$	/B	B	/B	B	-2	B	-2	/B	-B	-/B	2	.	-B	-/B	-/B	2	-B
$\chi_{112}^{(82)}$	B	/B	B	/B	-2	/B	-2	B	-/B	-B	2	.	-/B	-B	-B	2	-/B
$\chi_{112}^{(83)}$	/B	-2	B	/B	-2	B	/B	-2	2	-/B	-B	.	-/B	-B	2	-/B	-B
$\chi_{112}^{(84)}$	B	-2	/B	B	-2	/B	B	-2	2	-B	-/B	.	-B	-/B	2	-B	-/B
$\chi_{112}^{(85)}$	2	-/B	-/B	-B	2	2	-/B	-B	-/B	2	-B	.	-B	-/B	-B	-/B	2
$\chi_{112}^{(86)}$	2	-B	-B	-/B	2	2	-B	-/B	-B	2	-/B	.	-/B	-B	-/B	-B	2
$\chi_{112}^{(87)}$	-/B	-/B	2	2	2	-B	-B	-B	-/B	-/B	-/B	.	2	2	-B	-B	-B
$\chi_{112}^{(88)}$	-B	-B	2	2	2	-/B	-/B	-/B	-B	-B	-B	.	2	2	-/B	-/B	-/B
$\chi_{112}^{(89)}$	-/B	-B	-/B	-B	2	-B	2	-/B	-B	-/B	2	.	-B	-/B	-/B	2	-B
$\chi_{112}^{(90)}$	-B	-/B	-B	-/B	2	-/B	2	-B	-/B	-B	2	.	-/B	-B	-B	2	-/B

	100																
$\chi_{112}^{(91)}$	-/B	2	-B	-/B	2	-B	-/B	2	2	-/B	-B	.	-/B	-B	2	-/B	-B
$\chi_{112}^{(92)}$	-B	2	-/B	-B	2	-/B	-B	2	2	-B	-/B	.	-B	-/B	2	-B	-/B
$\chi_{112}^{(93)}$	2	-/B	-/B	-B	2	2	-/B	-B	-/B	2	-B	.	-B	-/B	-B	-/B	2
$\chi_{112}^{(94)}$	2	-B	-B	-/B	2	2	-B	-/B	-B	2	-/B	.	-/B	-B	-/B	-B	2
$\chi_{112}^{(95)}$	-/B	-/B	2	2	2	-B	-B	-B	-/B	-/B	-/B	.	2	2	-B	-B	-B
$\chi_{112}^{(96)}$	-B	-B	2	2	2	-/B	-/B	-/B	-B	-B	-B	.	2	2	-/B	-/B	-/B
$\chi_{112}^{(97)}$	-/B	-B	-/B	-B	2	-B	2	-/B	-B	-/B	2	.	-B	-/B	-/B	2	-B
$\chi_{112}^{(98)}$	-B	-/B	-B	-/B	2	-/B	2	-B	-/B	-B	2	.	-/B	-B	-B	2	-/B
$\chi_{112}^{(99)}$	-/B	2	-B	-/B	2	-B	-/B	2	2	-/B	-B	.	-/B	-B	2	-/B	-B
$\chi_{112}^{(100)}$	-B	2	-/B	-B	2	-/B	-B	2	2	-B	-/B	.	-B	-/B	2	-B	-/B
$\chi_{112}^{(101)}$	-2	/B	/B	B	-2	-2	/B	B	-/B	2	-B	.	-B	-/B	-B	-/B	2
$\chi_{112}^{(102)}$	-2	B	B	/B	-2	-2	B	/B	-B	2	-/B	.	-/B	-B	-/B	-B	2
$\chi_{112}^{(103)}$	/B	/B	-2	-2	-2	B	B	B	-/B	-/B	-/B	.	2	2	-B	-B	-B
$\chi_{112}^{(104)}$	B	B	-2	-2	-2	/B	/B	/B	-B	-B	-B	.	2	2	-/B	-/B	-/B
$\chi_{112}^{(105)}$	/B	B	/B	B	-2	B	-2	/B	-B	-/B	2	.	-B	-/B	-/B	2	-B
$\chi_{112}^{(106)}$	B	/B	B	/B	-2	/B	-2	B	-/B	-B	2	.	-/B	-B	-B	2	-/B
$\chi_{112}^{(107)}$	/B	-2	B	/B	-2	B	/B	-2	2	-/B	-B	.	-/B	-B	2	-/B	-B
$\chi_{112}^{(108)}$	B	-2	/B	B	-2	/B	B	-2	2	-B	-/B	.	-B	-/B	2	-B	-/B

where A = E(3) = (-1+ER(-3))/2 = b3, B = -2*E(3)^2 = 1+ER(-3) = 1+i3.

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